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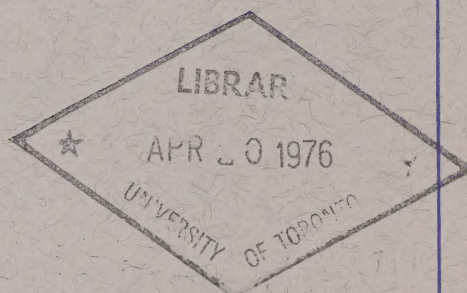
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(2)

*Canada Marine Sciences Directorate  
Pacific Region*

**THE HOWE SOUND CURRENT METERING PROGRAM,  
VOLUME III, PART 2 – DATA REPORT, STN. HS-5**

by  
**W.H. Bell**



**INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY  
Victoria, B.C.**



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PACIFIC MARINE SCIENCE REPORT 75-7

THE HOWE SOUND CURRENT METERING PROGRAM,  
VOLUME III, PART 2 - DATA REPORT, STN. HS-5

by

W.H. Bell

INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY

Victoria, B.C.

June, 1975



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# ABSTRACT

Current meter data, and some temperature and salinity data, obtained for several depths at three locations in Howe Sound are presented in three volumes. The presentations are chiefly statistical in nature. They extend over a period slightly greater than two years, beginning in late 1971.





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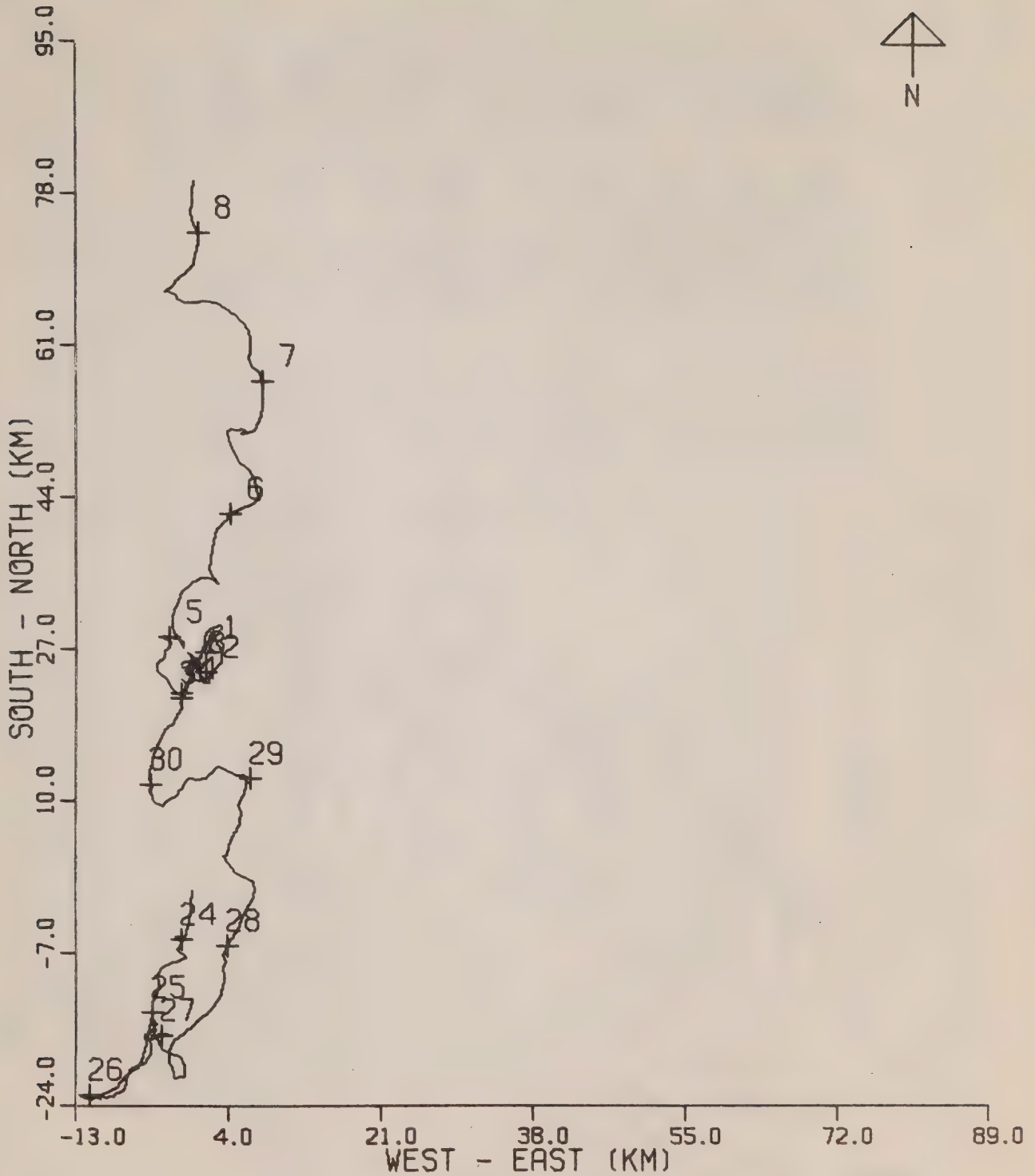




DATA FOR 20-METRE DEPTH







STN. NO. HS-5N

DEPTH 20 M.

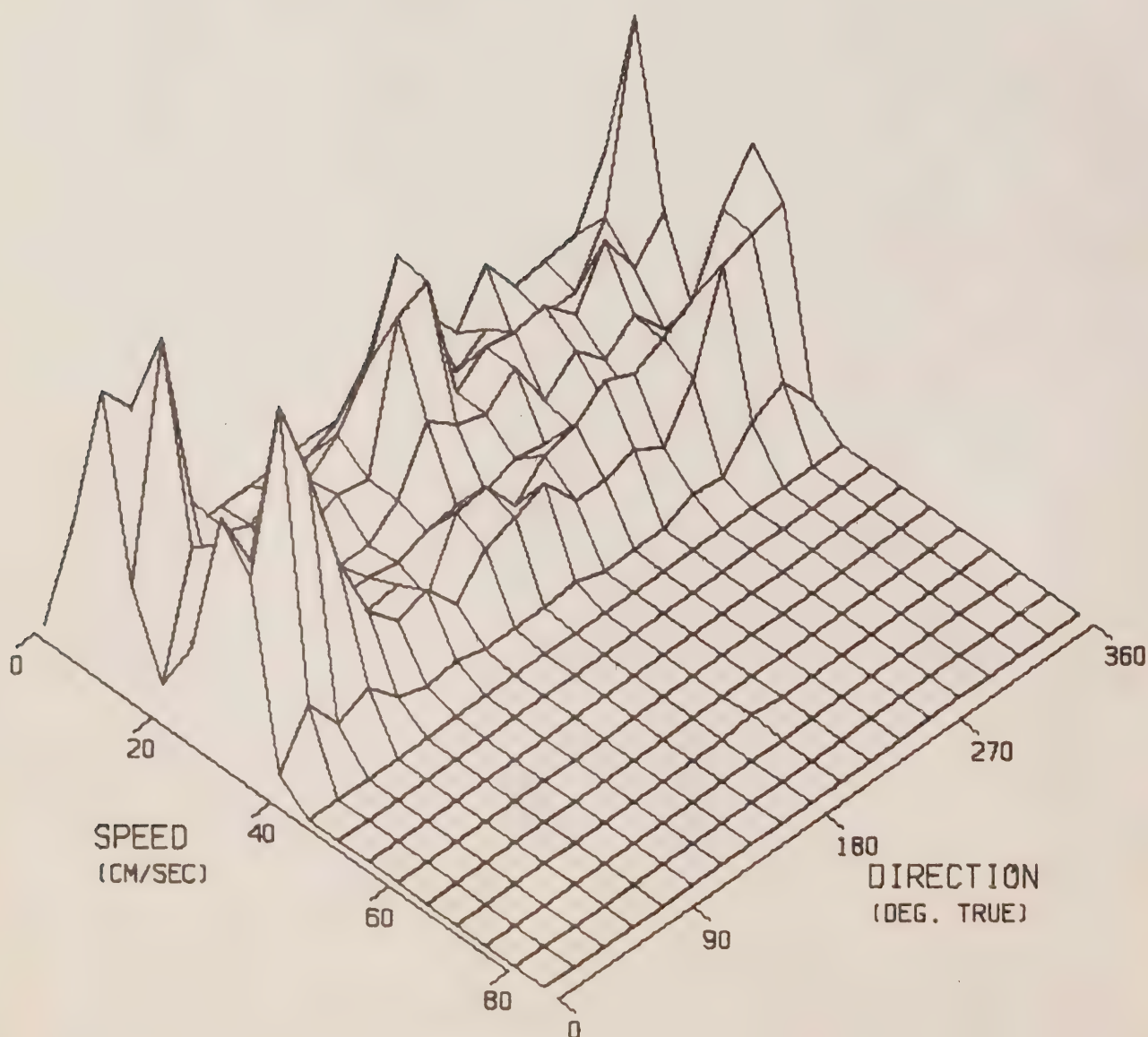
STARTING DATE: 23/ 1/73    ENDING DATE: 8/ 2/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 23/ 1/73

NO. OF SAMPLES = 2254





STN. NO. HS-5N

DEPTH 20 M.

STARTING DATE: 23/ 1/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	025	054	016	056	037								188
15- 29	026	081	048	039	071	004							269
30- 44	007	043	018	034	047	002							151
45- 59	006	029	007	030	044	001							117
60- 74	011	022	003	017	021	001							75
75- 89	004	010	001	008	016	002							41
90-104		008	007	007	013								35
105-119	003	006	010	009	010								38
120-134	001	011	010	014	011								47
135-149	002	010	007	004	006								29
150-164	005	016	011	015	008								55
165-179	006	030	012	016	013								77
180-194	007	055	028	020	016			001					127
195-209	015	048	022	010	014								109
210-224	020	023	019	016	008								86
225-239	014	018	023	015	011								81
240-254	014	015	012	019	005								65
255-269	010	022	011	021	011								75
270-284	021	018	017	022	009								87
285-299	010	012	012	019	014								67
300-314	009	015	011	020	017	001							73
315-329	009	020	015	026	034	002							106
330-344	013	024	010	031	039	002							119
345-359	014	043	005	034	040								136
	252		335		515		0		1		0		2253
		633		502		15		0		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 1

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M. START DATE 23/01/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	40	80	120	160	200
6	0 0	.	.	.	.	.
18	6 0	**				
30	25 1	*****				
42	30 1	*****				
54	71 3	*****				
66	98 4	*****				
78	57 3	*****				
90	103 5	*****				
102	100 4	*****				
114	81 4	*****				
126	103 5	*****				
138	93 4	*****				
150	95 4	*****				
162	76 3	*****				
174	76 3	*****				
186	56 2	*****				
198	47 2	*****				
210	46 2	*****				
222	37 2	*****				
234	31 1	*****				
246	26 1	*****				
258	47 2	*****				
270	56 2	*****				
282	80 4	*****				
294	115 5	*****				
306	104 5	*****				
318	89 4	*****				
330	100 4	*****				
342	136 6	*****				
354	114 5	*****				
366	76 3	*****				
378	31 1	*****				
390	32 1	*****				
402	9 0	**				
414	4 0	*				
426	2 0	*				
438	0 0					
450	0 0					
462	0 0					
474	0 0					

NO. OF SAMPLES OVER 480 = 2

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 2254

SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 23/01/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	135	6	*****				
15	168	7	*****				
25	168	7	*****				
35	104	5	*****				
45	86	4	*****				
55	71	3	*****				
65	46	2	*****				
75	43	2	*****				
85	21	1	****				
95	24	1	*****				
105	30	1	*****				
115	21	1	****				
125	30	1	*****				
135	28	1	*****				
145	17	1	***				
155	42	2	*****				
165	37	2	*****				
175	58	3	*****				
185	81	4	*****				
195	88	4	*****				
205	69	3	*****				
215	51	2	*****				
225	54	2	*****				
235	56	2	*****				
245	49	2	*****				
255	39	2	*****				
265	57	3	*****				
275	57	3	*****				
285	44	2	*****				
295	54	2	*****				
305	34	2	*****				
315	79	4	*****				
325	67	3	*****				
335	75	3	*****				
345	80	4	*****				
355	91	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2254  
 SAMPLE INTERVAL = 10 MINUTES

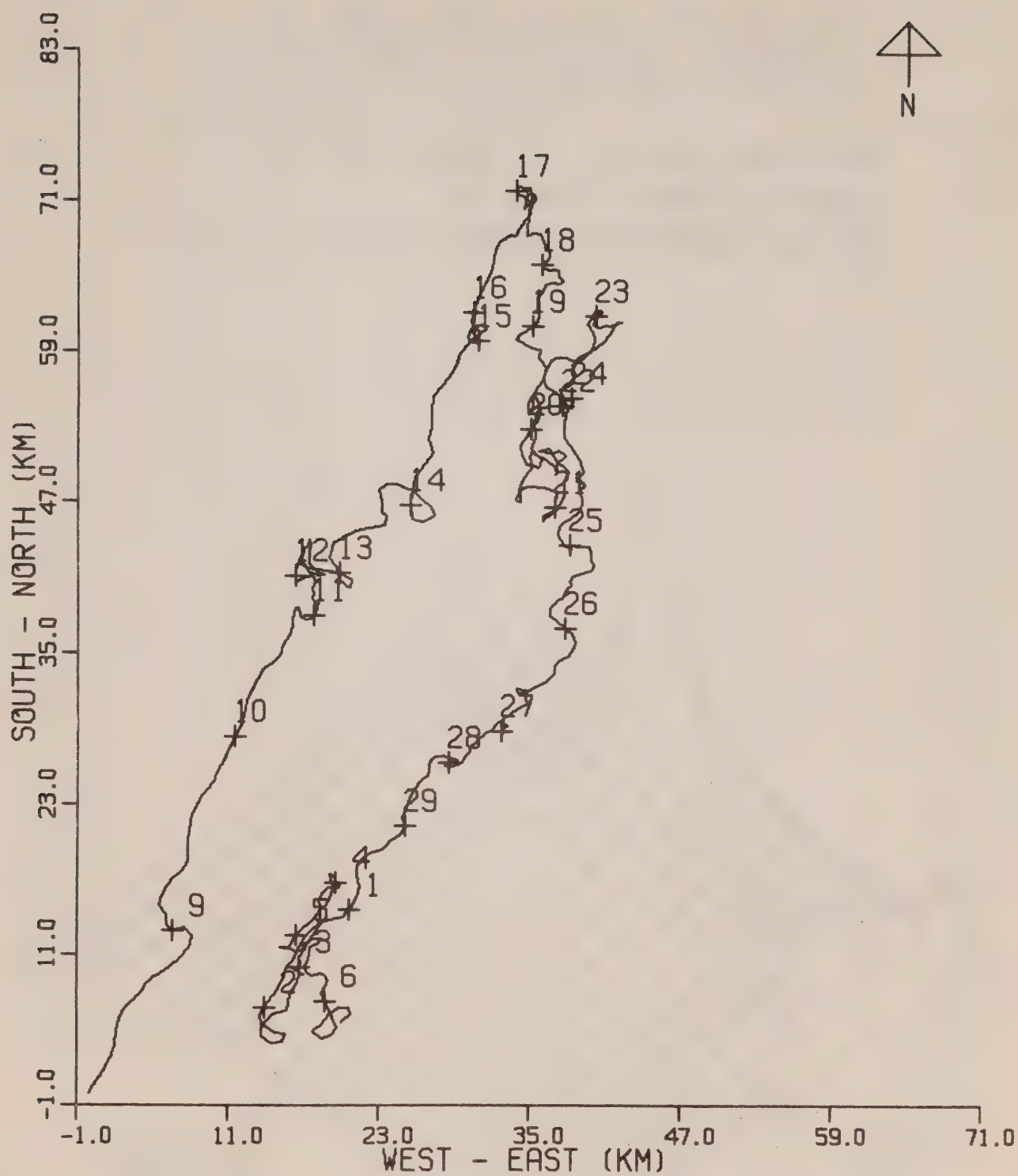
## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M. START DATE 23/01/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	80 .	160 .	240 .	320 .	400 .
6.03	0	0					
6.09	0	0					
6.15	0	0					
6.21	6	0	*				
6.27	6	0	*				
6.33	1	0					
6.39	2	0					
6.45	4	0	*				
6.51	7	0	*				
6.57	8	0	*				
6.63	8	0	*				
6.69	16	1	**				
6.75	40	2	*****				
6.81	61	3	*****				
6.87	68	3	*****				
6.93	36	2	*****				
6.99	96	4	*****				
7.05	255	11	*****				
7.11	368	16	*****				
7.17	249	11	*****				
7.23	124	6	*****				
7.29	152	7	*****				
7.35	25	1	***				
7.41	11	0	*				
7.47	17	1	**				
7.53	18	1	**				
7.59	68	3	*****				
7.65	51	2	*****				
7.71	27	1	***				
7.77	81	4	*****				
7.83	103	5	*****				
7.89	293	13	*****				
7.95	53	2	*****				
8.01	0	0					
8.07	0	0					
8.13	0	0					
8.19	0	0					
8.25	0	0					
8.31	0	0					
8.37	0	0					

NO. OF SAMPLES OVER 8.40 = 0  
 NO. OF SAMPLES UNDER 6.00 = 0  
 TOTAL NO. OF OBSERVATIONS = 2254  
 SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5N

DEPTH 20 M.

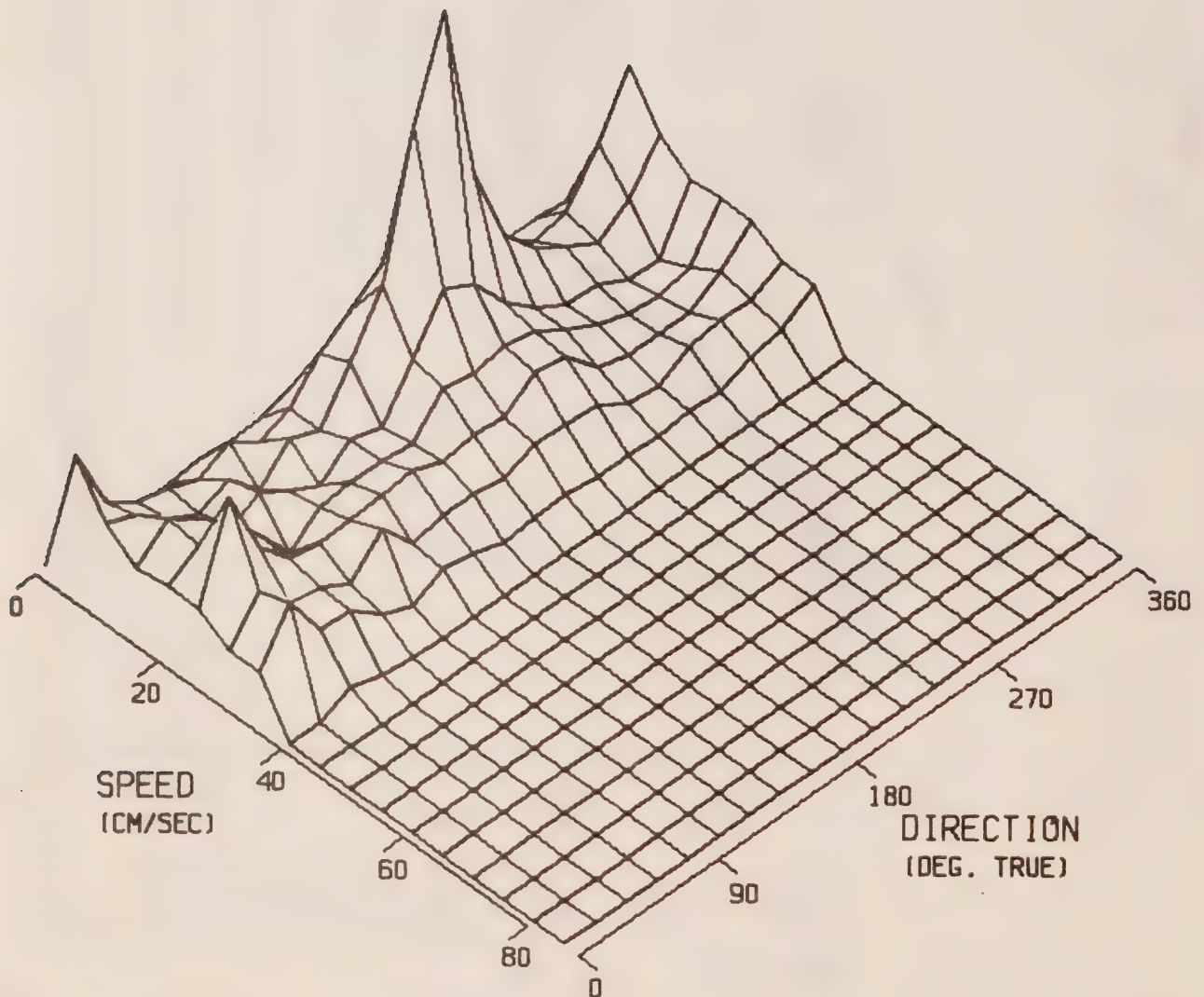
STARTING DATE: 8/ 2/73    ENDING DATE: 6/ 3/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 8/ 2/73

NO. OF SAMPLES = 3935



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 8/ 2/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	053	072	056	042	035								258
15- 29	038	063	059	088	044								292
30- 44	022	042	059	052	030								205
45- 59	016	032	044	042	028								162
60- 74	018	033	026	029	019								125
75- 89	013	032	021	033	012								111
90-104	021	015	025	041	009								111
105-119	013	023	024	035	011								106
120-134	011	020	035	029	010								105
135-149	020	026	033	033	008								120
150-164	025	041	028	029	007								130
165-179	050	046	039	030	005								170
180-194	045	087	055	026	004								217
195-209	065	151	037	033	009								295
210-224	079	187	054	041	006								367
225-239	071	110	051	030	004								266
240-254	040	073	045	028	004								190
255-269	020	053	027	014	006								120
270-284	012	032	024	013	005								86
285-299	015	027	016	018	007								83
300-314	018	024	013	023	003								81
315-329	018	009	012	021	010								70
330-344	034	017	017	027	016								111
345-359	053	027	021	042	011								154
	770	821		303		0	0	0	0	0			3935
	1242		799			0	0	0	0	0	0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 8/02/73

MEDIAN (MM/S)	FREQUENCY NO, PCT	60	120	180	240	300
5	0 0	.	.	.	.	.
15	22 1	*****				
25	22 1	*****				
35	80 2	*****				
45	101 3	*****				
55	192 5	*****				
65	165 4	*****				
75	188 5	*****				
85	277 7	*****				
95	165 4	*****				
105	217 6	*****				
115	122 3	*****				
125	179 5	*****				
135	96 2	*****				
145	118 3	*****				
155	68 2	*****				
165	82 2	*****				
175	119 3	*****				
185	74 2	*****				
195	123 3	*****				
205	82 2	*****				
215	140 4	*****				
225	111 3	*****				
235	152 4	*****				
245	92 2	*****				
255	86 2	*****				
265	141 4	*****				
275	81 2	*****				
285	132 3	*****				
295	61 2	*****				
305	93 2	*****				
315	51 1	*****				
325	68 2	*****				
335	90 2	*****				
345	53 1	*****				
355	52 1	*****				
365	19 0	***				
375	20 1	***				
385	1 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 3935

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M. START DATE 8/02/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	192	5	*****				
15	175	4	*****				
25	200	5	*****				
35	132	3	*****				
45	130	3	*****				
55	96	2	*****				
65	88	2	*****				
75	69	2	*****				
85	76	2	*****				
95	74	2	*****				
105	77	2	*****				
115	68	2	*****				
125	70	2	*****				
135	81	2	*****				
145	75	2	*****				
155	88	2	*****				
165	96	2	*****				
175	122	3	*****				
185	141	4	*****				
195	173	4	*****				
205	205	5	*****				
215	254	6	*****				
225	207	5	*****				
235	163	4	*****				
245	141	4	*****				
255	91	2	*****				
265	72	2	*****				
275	54	1	*****				
285	58	1	*****				
295	61	2	*****				
305	48	1	*****				
315	49	1	*****				
325	52	1	*****				
335	65	2	*****				
345	87	2	*****				
355	105	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3935  
 SAMPLE INTERVAL = 10 MINUTES

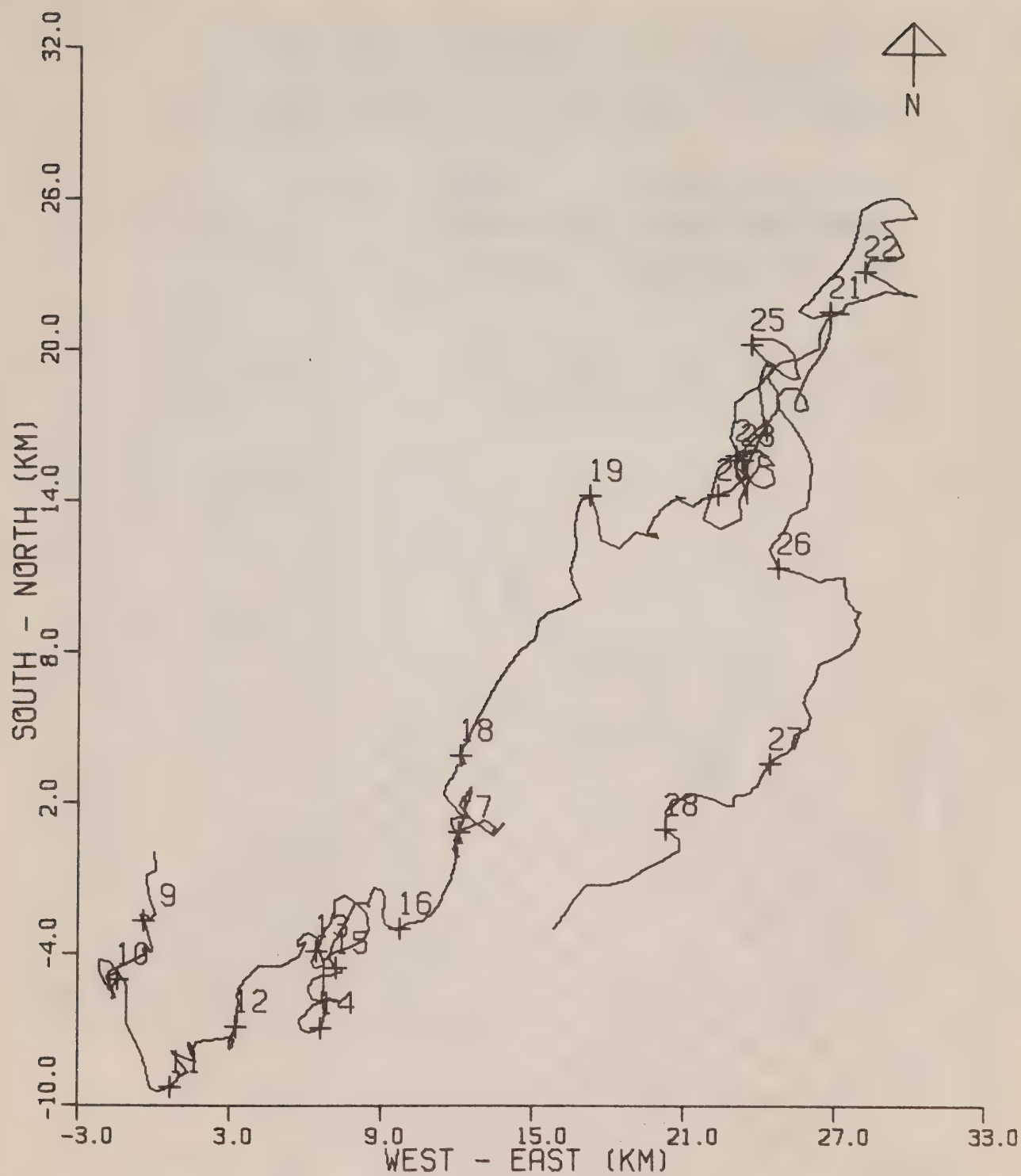
## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 8/02/73

MEDIAN (DEG.C)	FREQINCY NO. PCT .	120 .	240 .	360 .	480 .	600 .
6.02	0 0					
6.06	0 0					
6.10	0 0					
6.14	0 0					
6.18	0 0					
6.22	0 0					
6.26	0 0					
6.30	0 0					
6.34	0 0					
6.38	0 0					
6.42	1 0					
6.46	21 1	**				
6.50	35 1	***				
6.54	30 1	***				
6.58	91 2	*****				
6.62	117 3	*****				
6.66	237 6	*****				
6.70	257 7	*****				
6.74	362 9	*****				
6.78	636 16	*****				
6.82	251 6	*****				
6.86	329 8	*****				
6.90	223 6	*****				
6.94	340 9	*****				
6.98	437 11	*****				
7.02	185 5	*****				
7.06	267 7	*****				
7.10	106 3	*****				
7.14	10 0	*				
7.18	0 0					
7.22	0 0					
7.26	0 0					
7.30	0 0					
7.34	0 0					
7.38	0 0					
7.42	0 0					
7.46	0 0					
7.50	0 0					
7.54	0 0					
7.58	0 0					

NO. OF SAMPLES OVER 7.60 = 0  
 NO. OF SAMPLES UNDER 6.00 = 0  
 TOTAL NO. OF OBSERVATIONS = 3935  
 SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5N

DEPTH 20 M.

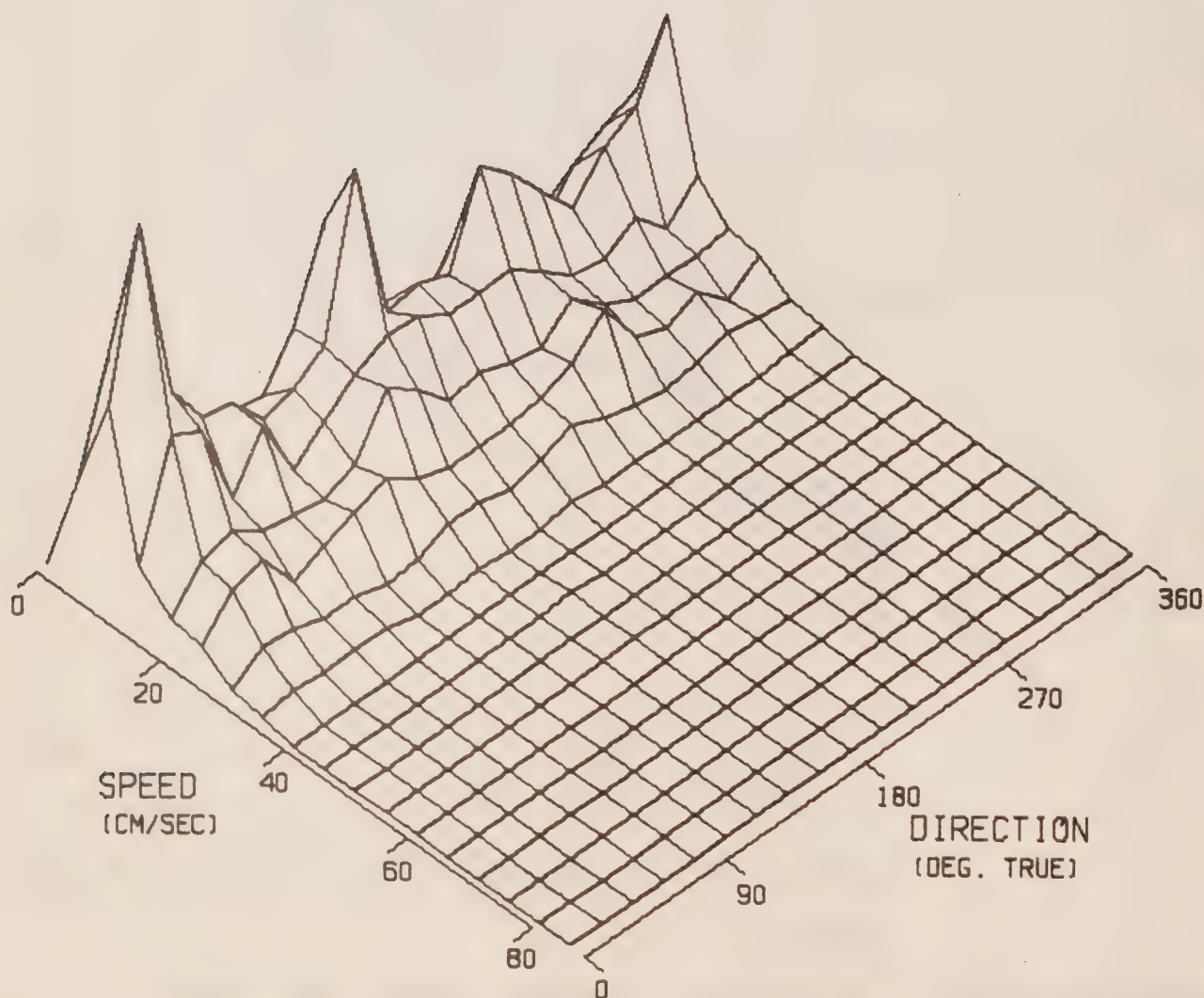
STARTING DATE: 8/ 3/73    ENDING DATE: 28/ 3/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 8/ 3/73

NO. OF SAMPLES = 2879



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 8/ 3/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	040	083	015	016	002								156
15- 29	071	126	038	020	003								258
30- 44	050	077	035	023	003								188
45- 59	033	041	024	016	002								116
60- 74	017	049	034	010	001								111
75- 89	015	052	025	010	003								105
90-104	021	034	018	015									88
105-119	021	026	031	011									89
120-134	014	038	026	018	001								97
135-149	040	044	042	014	001								141
150-164	051	081	048	014		001							195
165-179	039	066	029	014			001						149
180-194	008	036	025	013	001								83
195-209	024	051	025	009	001								110
210-224	010	046	020	022	002								100
225-239	009	036	019	018	001								83
240-254	042	085	032	015									174
255-269	025	046	026	023	001								121
270-284	024	043	020	013									100
285-299	017	025	011	009									62
300-314	012	034	012	009	001								68
315-329	028	039	017	016									100
330-344	028	046	013	004	001								92
345-359	034	034	018	005	002								93
	673		603		26		0		0		0		2879
	1238		337		1		1		0		0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 08/03/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
5	0	0	.	.	.	.	.
15	6	0	*				
25	43	1	*****				
35	87	3	*****				
45	68	2	*****				
55	158	5	*****				
65	135	5	*****				
75	176	6	*****				
85	264	9	*****				
95	181	6	*****				
105	210	7	*****				
115	106	4	*****				
125	177	6	*****				
135	112	4	*****				
145	120	4	*****				
155	68	2	*****				
165	74	3	*****				
175	127	4	*****				
185	77	3	*****				
195	88	3	*****				
205	54	2	*****				
215	91	3	*****				
225	43	1	*****				
235	78	3	*****				
245	51	2	*****				
255	47	2	*****				
265	71	2	*****				
275	36	1	*****				
285	48	2	*****				
295	18	1	****				
305	25	1	*****				
315	12	0	**				
325	11	0	**				
335	9	0	**				
345	3	0	*				
355	1	0					
365	1	0					
375	1	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2879  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M. START DATE 08/03/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	101	4	*****				
15	139	5	*****				
25	186	6	*****				
35	122	4	*****				
45	107	4	*****				
55	70	2	*****				
65	67	2	*****				
75	86	3	*****				
85	62	2	*****				
95	65	2	*****				
105	46	2	*****				
115	69	2	*****				
125	62	2	*****				
135	69	2	*****				
145	112	4	*****				
155	126	4	*****				
165	130	5	*****				
175	77	3	*****				
185	55	2	*****				
195	73	3	*****				
205	72	3	*****				
215	58	2	*****				
225	69	2	*****				
235	58	2	*****				
245	113	4	*****				
255	91	3	*****				
265	90	3	*****				
275	71	2	*****				
285	49	2	*****				
295	36	1	*****				
305	43	1	*****				
315	61	2	*****				
325	67	2	*****				
335	59	2	*****				
345	57	2	*****				
355	61	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2879  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M. START DATE 08/03/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	80 .	160 .	240 .	320 .	400 .
6.41	0	0					
6.43	0	0					
6.45	0	0					
6.47	0	0					
6.49	0	0					
6.51	0	0					
6.53	0	0					
6.55	0	0					
6.57	0	0					
6.59	0	0					
6.61	0	0					
6.63	0	0					
6.65	0	0					
6.67	0	0					
6.69	0	0					
6.71	0	0					
6.73	25	1	***				
6.75	0	0					
6.77	167	6	*****				
6.79	228	8	*****				
6.81	0	0					
6.83	284	10	*****				
6.85	0	0					
6.87	386	13	*****				
6.89	291	10	*****				
6.91	0	0					
6.93	240	8	*****				
6.95	0	0					
6.97	260	9	*****				
6.99	270	9	*****				
7.01	0	0					
7.03	156	5	*****				
7.05	0	0					
7.07	286	10	*****				
7.09	180	6	*****				
7.11	0	0					
7.13	103	4	*****				
7.15	0	0					
7.17	3	0					
7.19	0	0					

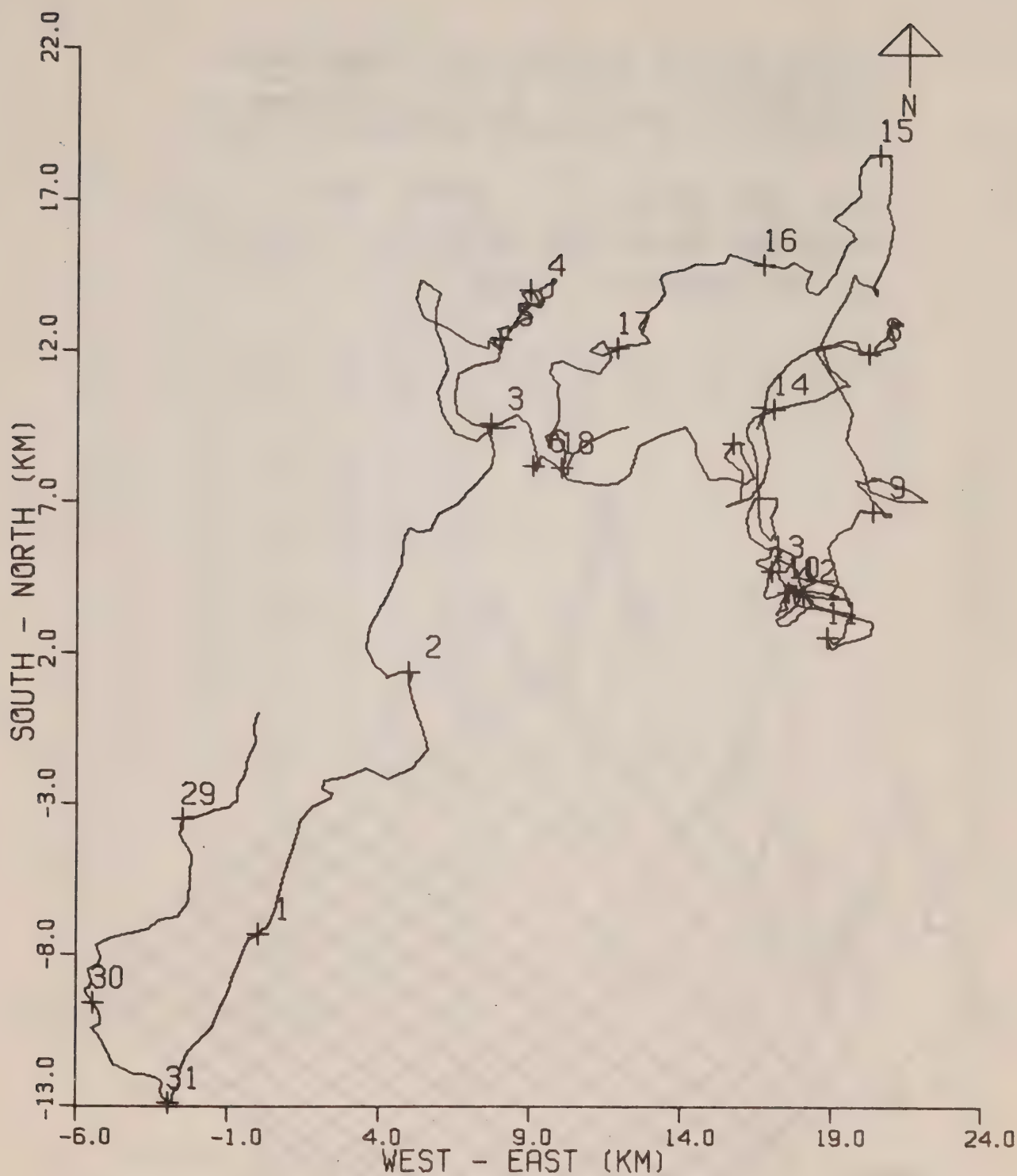
NO. OF SAMPLES OVER 7.20 = 0

NO. OF SAMPLES UNDER 6.40 = 0

TOTAL NO. OF OBSERVATIONS = 2879

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5N

DEPTH 20 M.

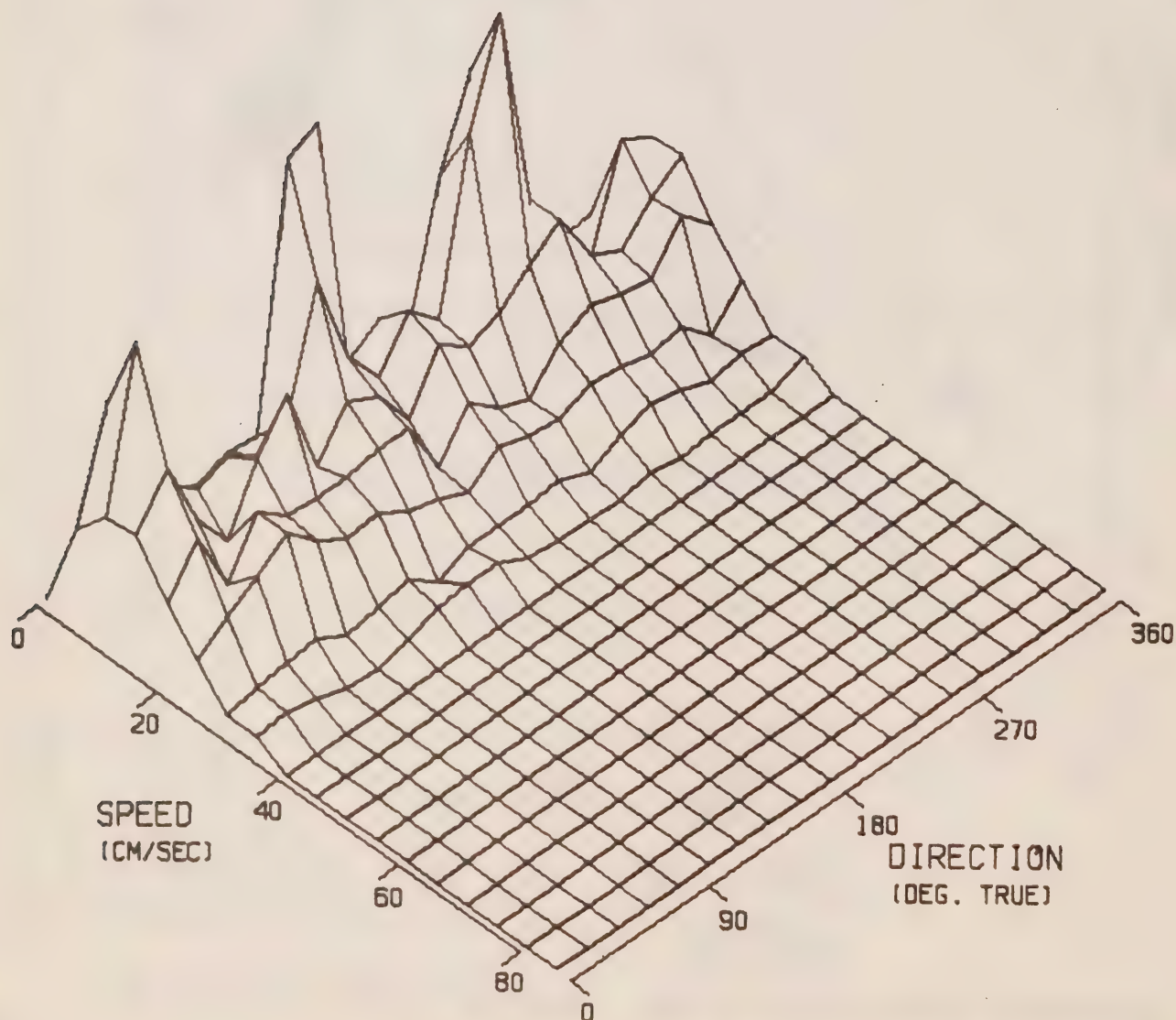
STARTING DATE: 28/ 3/73    ENDING DATE: 18/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 28/ 3/73

NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 28/ 3/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	028	061	028	011	004								132
15- 29	060	097	048	019	005								229
30- 44	034	043	028	015	005								125
45- 59	024	031	038	022	002								117
60- 74	018	034	038	024	001								115
75- 89	012	046	033	011									102
90-104	014	046	037	019	001								117
105-119	018	033	027	016	005								99
120-134	020	041	035	010	005								111
135-149	097	063	033	010	007								210
150-164	090	058	032	007	006								193
165-179	034	024	018	014	004								94
180-194	018	023	019	008									68
195-209	025	053	026	009	002								115
210-224	015	040	021	012	001								89
225-239	024	032	012	007									75
240-254	069	099	024	008	001								201
255-269	074	090	024	017	002								207
270-284	020	062	040	013	001								136
285-299	019	033	031	016	002								101
300-314	012	033	026	010									81
315-329	013	025	021	010	001								70
330-344	015	048	032	007	001								103
345-359	016	043	039	010	002								110
	769	710		58		0		0	0	0	0		3000
	1158		305		0		0		0		0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M. START DATE 28/03/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	50	100	150	200	250
5	0 0	.	.	.	.	.
15	7 0	*				
25	31 1	*****				
35	73 2	*****				
45	99 3	*****				
55	236 8	*****				
65	164 5	*****				
75	159 5	*****				
85	228 8	*****				
95	148 5	*****				
105	169 6	*****				
115	127 4	*****				
125	138 5	*****				
135	98 3	*****				
145	139 5	*****				
155	111 4	*****				
165	82 3	*****				
175	130 4	*****				
185	85 3	*****				
195	138 5	*****				
205	71 2	*****				
215	78 3	*****				
225	64 2	*****				
235	82 3	*****				
245	65 2	*****				
255	54 2	*****				
265	52 2	*****				
275	30 1	*****				
285	30 1	*****				
295	15 1	***				
305	29 1	*****				
315	10 0	**				
325	15 1	***				
335	21 1	****				
345	10 0	**				
355	12 0	**				
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 28/03/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	93	3	*****				
15	131	4	*****				
25	152	5	*****				
35	72	2	*****				
45	88	3	*****				
55	75	3	*****				
65	73	2	*****				
75	72	2	*****				
85	72	2	*****				
95	75	3	*****				
105	77	3	*****				
115	63	2	*****				
125	73	2	*****				
135	85	3	*****				
145	171	6	*****				
155	135	5	*****				
165	88	3	*****				
175	49	2	*****				
185	41	1	*****				
195	76	3	*****				
205	70	2	*****				
215	68	2	*****				
225	40	1	*****				
235	63	2	*****				
245	131	4	*****				
255	157	5	*****				
265	123	4	*****				
275	91	3	*****				
285	72	2	*****				
295	67	2	*****				
305	53	2	*****				
315	48	2	*****				
325	47	2	*****				
335	64	2	*****				
345	78	3	*****				
355	67	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 28/03/73

MEDIAN (DEG.C)	FREQUENCY NO. PCT	190	380	570	760	950
6.81	0 0	.	.	.	.	.
6.83	0 0					
6.85	0 0					
6.87	0 0					
6.89	0 0					
6.91	0 0					
6.93	0 0					
6.95	0 0					
6.97	19 1					
6.99	302 10					
7.01	0 0					
7.03	954 32					
7.05	0 0					
7.07	658 22					
7.09	701 23					
7.11	0 0					
7.13	206 7					
7.15	0 0					
7.17	55 2					
7.19	29 1					
7.21	0 0					
7.23	16 1					
7.25	0 0					
7.27	26 1					
7.29	17 1					
7.31	0 0					
7.33	8 0					
7.35	0 0					
7.37	1 0					
7.39	3 0					
7.41	0 0					
7.43	2 0					
7.45	0 0					
7.47	3 0					
7.49	0 0					
7.51	0 0					
7.53	0 0					
7.55	0 0					
7.57	0 0					
7.59	0 0					

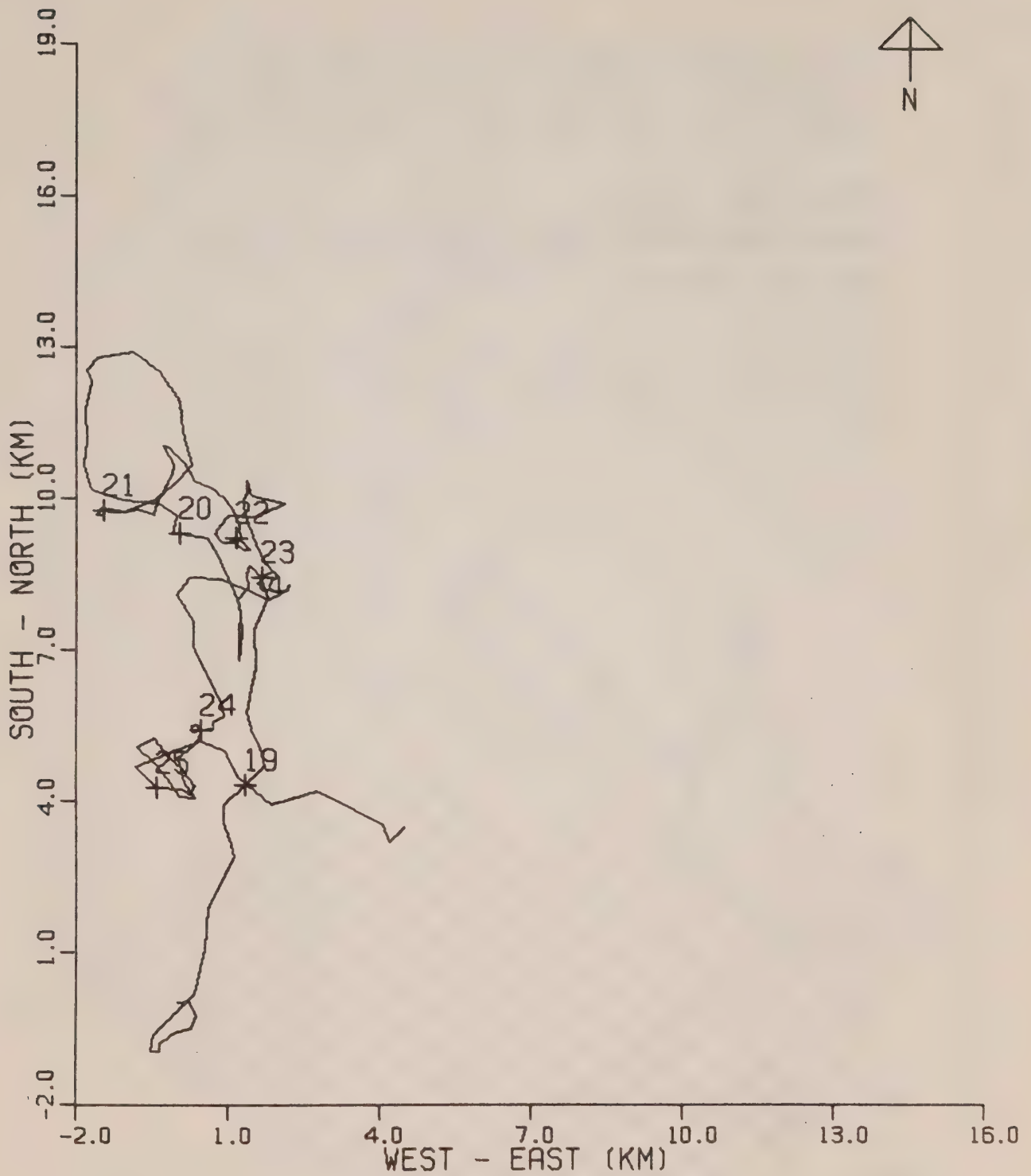
NO. OF SAMPLES OVER 7.60 = 0

NO. OF SAMPLES UNDER 6.80 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5N

DEPTH 20 M.

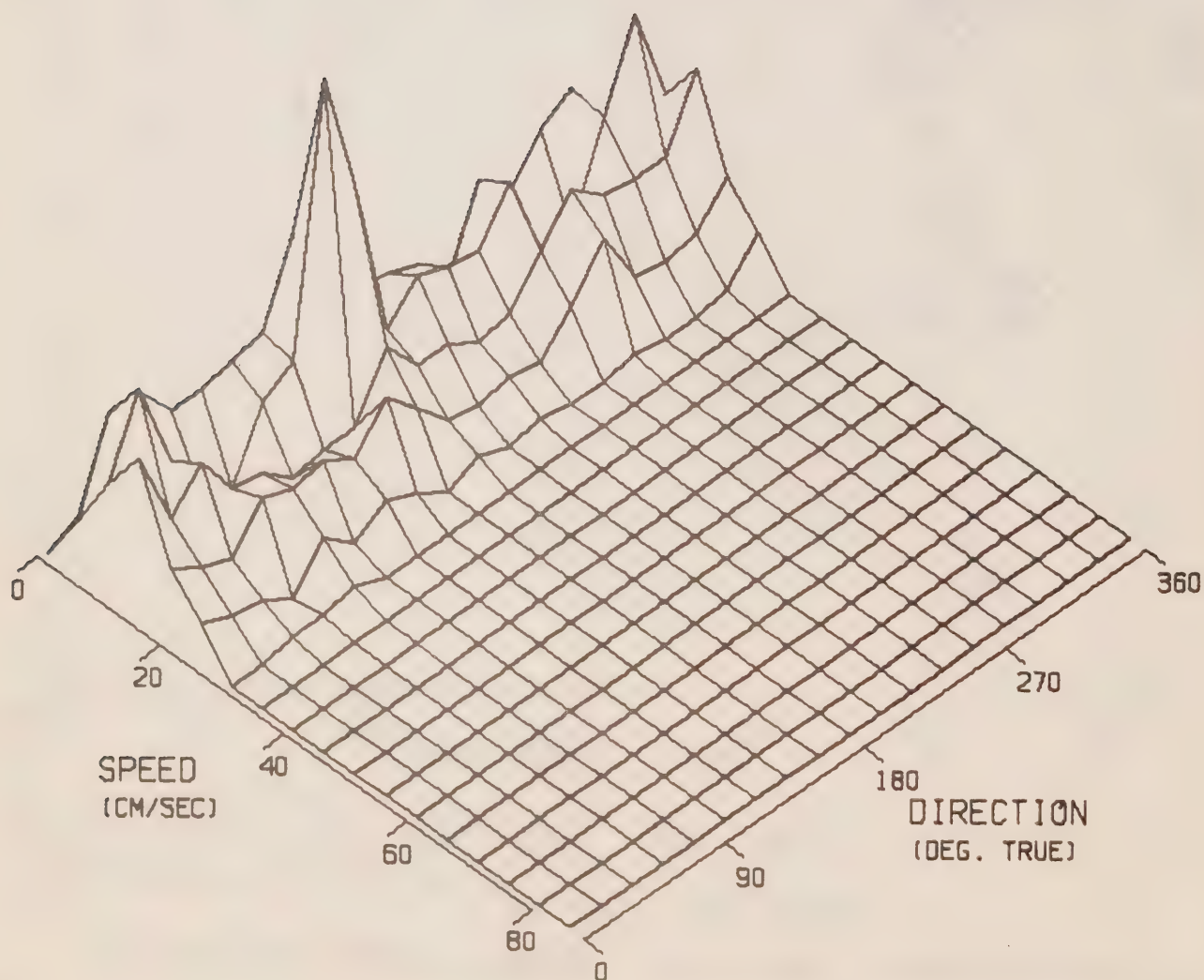
STARTING DATE: 18/ 4/73    ENDING DATE: 25/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 18/ 4/73

NO. OF SAMPLES = 1038



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 18/ 4/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	006	028	010	005									49
15- 29	018	025	007	003									53
30- 44	023	023	008	002									56
45- 59	015	010	011	001									37
60- 74	007	007	009	002									25
75- 89	014	008	011	005									38
90-104	013	011	011	002									37
105-119	017	010	008										35
120-134	019	013	010	004									46
135-149	038	047	013	001									99
150-164	028	037	012	001									78
165-179	017	012	011										40
180-194	009	011	005										25
195-209	010	018	004										32
210-224	015	015	007										37
225-239	004	009	003										16
240-254	008	012	004										24
255-269	015	023	012										50
270-284	010	014	016										40
285-299	012	010	017										39
300-314	012	019	004										35
315-329	019	021	003										43
330-344	013	033	005										51
345-359	012	023	018										53
	354		219		0		0		0		0		1038
	439		26		0		0		0		0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 18/04/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	20	40	60	80	100
4	0	0	.	.	.	.	.
12	2	0	*				
20	21	2	*****				
28	27	3	*****				
36	40	4	*****				
44	47	5	*****				
52	67	6	*****				
60	53	5	*****				
68	63	6	*****				
76	34	3	*****				
84	58	6	*****				
92	69	7	*****				
100	49	5	*****				
108	64	6	*****				
116	38	4	*****				
124	34	3	*****				
132	30	3	*****				
140	24	2	*****				
148	32	3	*****				
156	41	4	*****				
164	22	2	*****				
172	42	4	*****				
180	41	4	*****				
188	33	3	*****				
196	33	3	*****				
204	13	1	*****				
212	6	1	***				
220	17	2	*****				
228	9	1	*****				
236	7	1	****				
244	0	0					
252	5	0	***				
260	7	1	****				
268	4	0	**				
276	4	0	**				
284	0	0					
292	1	0	*				
300	1	0	*				
308	0	0					
316	0	0					

NO. OF SAMPLES OVER 320 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1038  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 18/04/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	20	40	60	80	100
5	32	3	*****	.	.	.	.
15	40	4	*****				
25	35	3	*****				
35	38	4	*****				
45	25	2	*****				
55	26	3	*****				
65	19	2	*****				
75	20	2	*****				
85	25	2	*****				
95	22	2	*****				
105	29	3	*****				
115	20	2	*****				
125	34	3	*****				
135	42	4	*****				
145	72	7	*****				
155	58	6	*****				
165	35	3	*****				
175	21	2	*****				
185	20	2	*****				
195	14	1	*****				
205	27	3	*****				
215	28	3	*****				
225	9	1	*****				
235	12	1	*****				
245	16	2	*****				
255	30	3	*****				
265	28	3	*****				
275	28	3	*****				
285	26	3	*****				
295	26	3	*****				
305	19	2	*****				
315	34	3	*****				
325	26	3	*****				
335	40	4	*****				
345	28	3	*****				
355	34	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1038  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 18/04/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	70 .	140 .	210 .	280 .	350 .
6.81	0	0					
6.83	0	0					
6.85	0	0					
6.87	0	0					
6.89	0	0					
6.91	0	0					
6.93	0	0					
6.95	0	0					
6.97	0	0					
6.99	0	0					
7.01	0	0					
7.03	14	1	**				
7.05	0	0					
7.07	126	12	*****				
7.09	286	28	*****				
7.11	0	0					
7.13	326	31	*****				
7.15	0	0					
7.17	50	5	*****				
7.19	73	7	*****				
7.21	0	0					
7.23	30	3	****				
7.25	0	0					
7.27	25	2	****				
7.29	26	3	****				
7.31	0	0					
7.33	19	2	***				
7.35	0	0					
7.37	21	2	***				
7.39	15	1	**				
7.41	0	0					
7.43	4	0	*				
7.45	0	0					
7.47	9	1	*				
7.49	3	0					
7.51	0	0					
7.53	8	1	*				
7.55	0	0					
7.57	3	0					
7.59	0	0					

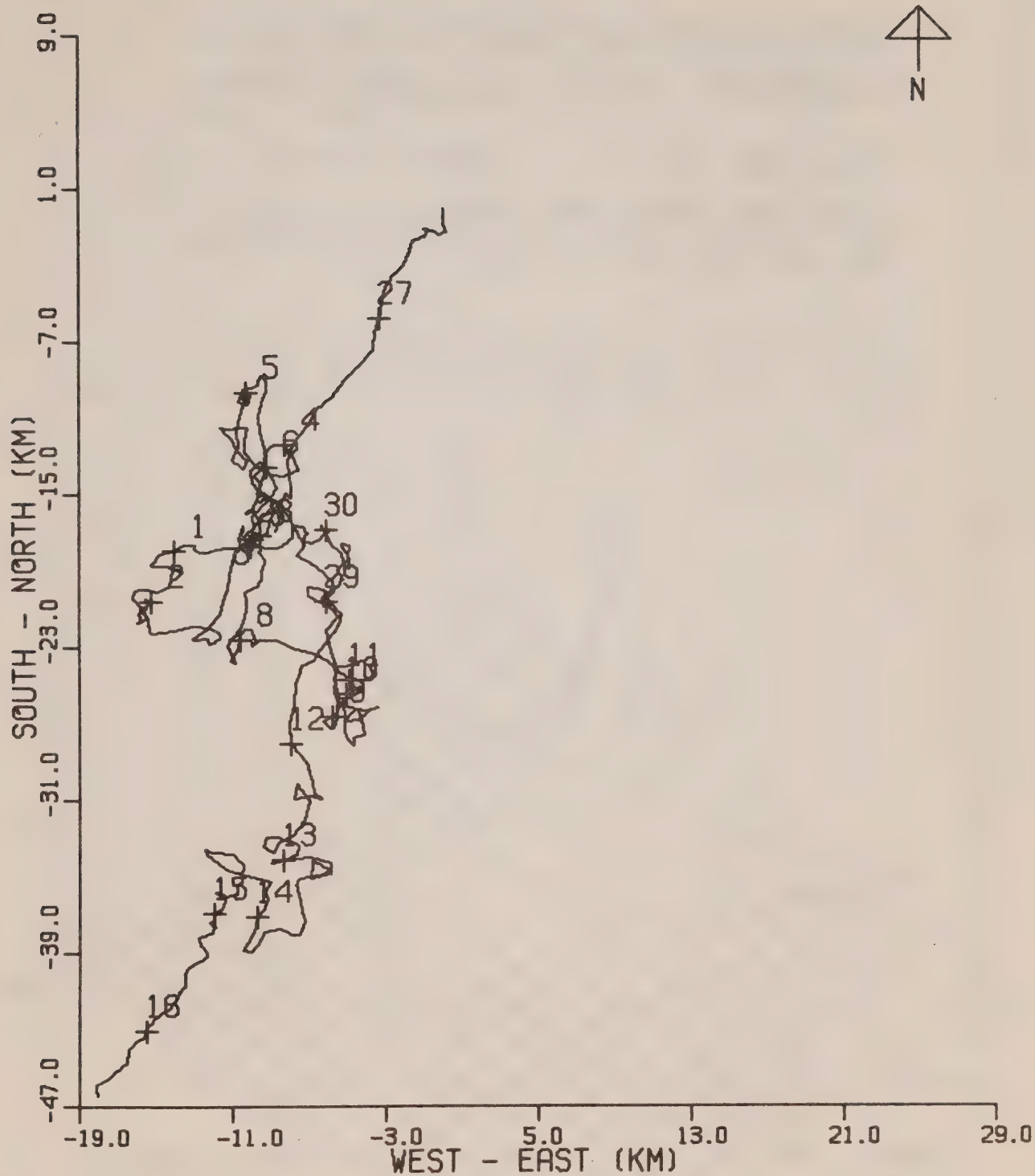
NO. OF SAMPLES OVER 7.60 = 0

NO. OF SAMPLES UNDER 6.80 = 0

TOTAL NO. OF OBSERVATIONS = 1038

SAMPLE INTERVAL = 10 MINUTES

RELEASED.



STN. NO. HS-5N

DEPTH 20 M.

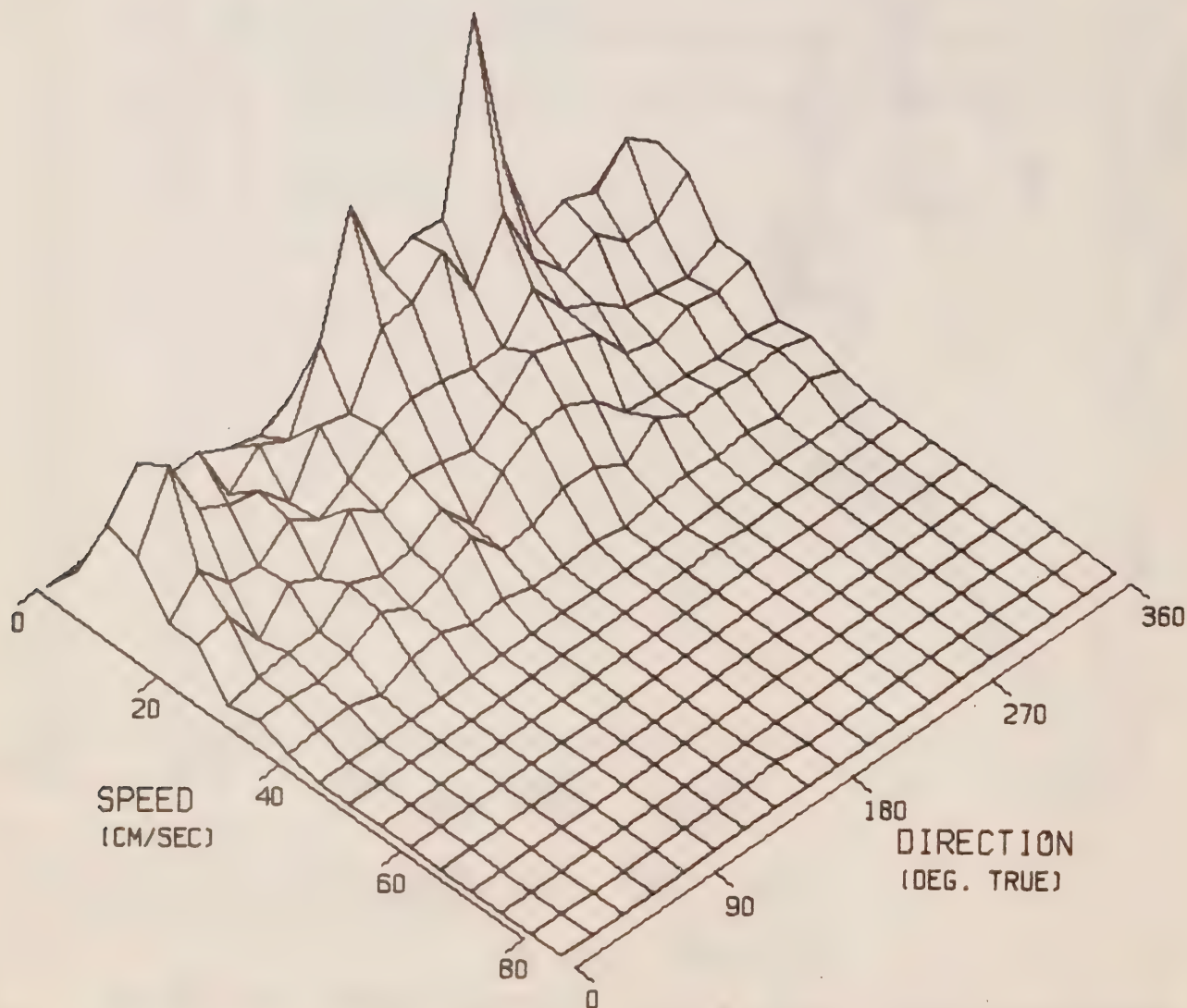
STARTING DATE: 26/ 4/73    ENDING DATE: 16/ 5/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 26/ 4/73

NO. OF SAMPLES = 2877





STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 26/ 4/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	013	050	018	012	006								99
15- 29	013	065	033	014	006								131
30- 44	012	041	020	005	004	001							83
45- 59	007	045	018	013	009								92
60- 74	013	038	014	010	009								84
75- 89	017	025	028	017	013	003							103
90-104	013	020	020	017	011	002							83
105-119	015	024	020	026	009								94
120-134	012	026	033	020	011	003							105
135-149	016	060	028	023	017	001							145
150-164	022	096	035	013	005					001			172
165-179	011	064	041	013	006	001							136
180-194	015	064	035	030	007								151
195-209	008	072	044	030	011	001							166
210-224	012	065	038	032	008								155
225-239	014	072	041	036	012		001						176
240-254	013	119	050	031	004								217
255-269	013	056	027	021	015								132
270-284	009	036	027	015	009								96
285-299	010	030	021	012	014								87
300-314	009	051	018	011	008								97
315-329	011	038	016	013	005								83
330-344	015	036	017	007	011	001							87
345-359	015	046	016	016	009	001							103
	308	658	219		1		0		1			2877	
	1239	437		14		0		0		0			

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 26/04/73

MEDIAN (MM/S)	FREQUENCY NO. PCT .	60 .	120 .	180 .	240 .	300 .
6	0 0					
18	1 0					
30	8 0	*				
42	30 1	*****				
54	72 3	*****				
66	148 5	*****				
78	116 4	*****				
90	197 7	*****				
102	225 8	*****				
114	209 7	*****				
126	184 6	*****				
138	158 5	*****				
150	154 5	*****				
162	133 5	*****				
174	111 4	*****				
186	100 3	*****				
198	91 3	*****				
210	109 4	*****				
222	96 3	*****				
234	100 3	*****				
246	64 2	*****				
258	87 3	*****				
270	60 2	*****				
282	48 2	*****				
294	57 2	*****				
306	56 2	*****				
318	47 2	*****				
330	42 1	*****				
342	41 1	*****				
354	45 2	*****				
366	36 1	*****				
378	23 1	****				
390	13 0	**				
402	9 0	**				
414	3 0	*				
426	2 0					
438	0 0					
450	0 0					
462	0 0					
474	0 0					

NO. OF SAMPLES OVER 480 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2877  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 26/04/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	40	80	120	160	200
5	61	2	*****	.	.	.	.
15	88	3	*****				
25	85	3	*****				
35	56	2	*****				
45	57	2	*****				
55	65	2	*****				
65	53	2	*****				
75	65	2	*****				
85	63	2	*****				
95	62	2	*****				
105	60	2	*****				
115	59	2	*****				
125	72	3	*****				
135	79	3	*****				
145	104	4	*****				
155	123	4	*****				
165	96	3	*****				
175	90	3	*****				
185	99	3	*****				
195	109	4	*****				
205	106	4	*****				
215	101	4	*****				
225	104	4	*****				
235	134	5	*****				
245	153	5	*****				
255	110	4	*****				
265	81	3	*****				
275	59	2	*****				
285	64	2	*****				
295	57	2	*****				
305	67	2	*****				
315	58	2	*****				
325	52	2	*****				
335	53	2	*****				
345	74	3	*****				
355	58	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2877  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 26/04/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	140	280	420	560	700
6.82	0	0	.	.	.	.	.
6.86	0	0					
6.90	0	0					
6.94	0	0					
6.98	0	0					
7.02	0	0					
7.06	0	0					
7.10	0	0					
7.14	0	0					
7.18	267	9	*****				
7.22	697	24	*****				
7.26	362	13	*****				
7.30	88	3	*****				
7.34	455	16	*****				
7.38	153	5	*****				
7.42	81	3	*****				
7.46	40	1	***				
7.50	112	4	*****				
7.54	90	3	*****				
7.58	82	3	*****				
7.62	85	3	*****				
7.66	41	1	***				
7.70	60	2	***				
7.74	58	2	***				
7.78	43	1	***				
7.82	20	1	*				
7.86	45	2	***				
7.90	16	1	*				
7.94	22	1	**				
7.98	10	0	*				
8.02	19	1	*				
8.06	25	1	**				
8.10	4	0					
8.14	1	0					
8.18	0	0					
8.22	1	0					
8.26	0	0					
8.30	0	0					
8.34	0	0					
8.38	0	0					

NO. OF SAMPLES OVER 8.40 = 0

NO. OF SAMPLES UNDER 6.80 = 0

TOTAL NO. OF OBSERVATIONS = 2877

SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 26/04/73

MEDIAN (PPT)	FREQUENCY NO.	PCT .	50 .	100 .	150 .	200 .	250 .
28.42	5	0	*				
28.46	5	0	*				
28.50	13	0	***				
28.54	23	1	*****				
28.58	36	1	*****				
28.62	55	2	*****				
28.66	40	1	*****				
28.70	71	2	*****				
28.74	90	3	*****				
28.78	120	4	*****				
28.82	75	3	*****				
28.86	94	3	*****				
28.90	95	3	*****				
28.94	70	2	*****				
28.98	102	4	*****				
29.02	64	2	*****				
29.06	89	3	*****				
29.10	61	2	*****				
29.14	23	1	*****				
29.18	14	0	***				
29.22	44	2	*****				
29.26	26	1	*****				
29.30	45	2	*****				
29.34	16	1	***				
29.38	66	2	*****				
29.42	54	2	*****				
29.46	86	3	*****				
29.50	141	5	*****				
29.54	56	2	*****				
29.58	189	7	*****				
29.62	250	9	*****				
29.66	67	2	*****				
29.70	213	7	*****				
29.74	103	4	*****				
29.78	201	7	*****				
29.82	44	2	*****				
29.86	130	5	*****				
29.90	1	0					
29.94	0	0					
29.98	0	0					

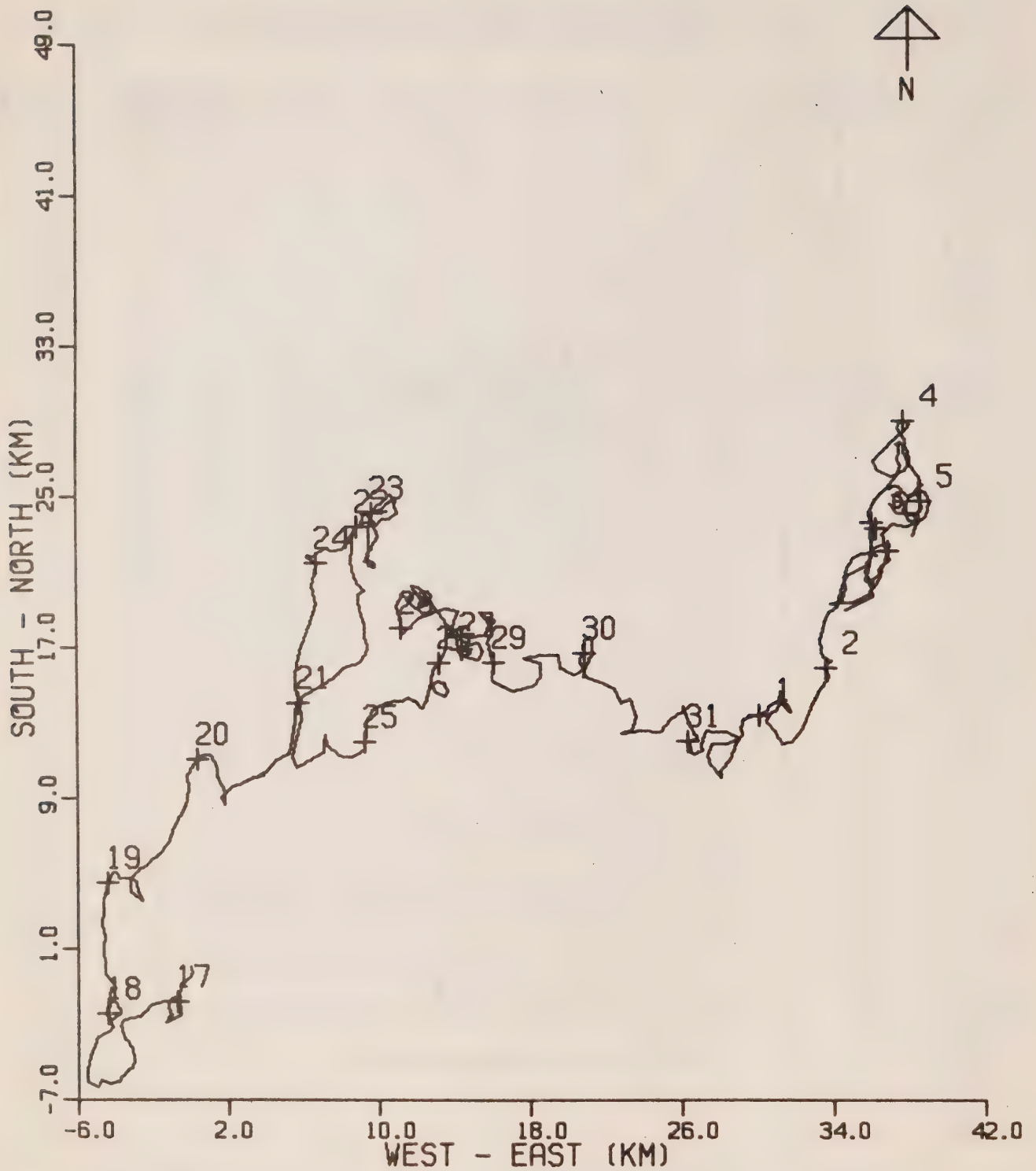
NO. OF SAMPLES OVER 30.00 = 0

NO. OF SAMPLES UNDER 28.40 = 0

TOTAL NO. OF OBSERVATIONS = 2877

SAMPLE INTERVAL = 10 MINUTES

3 RELEASED.



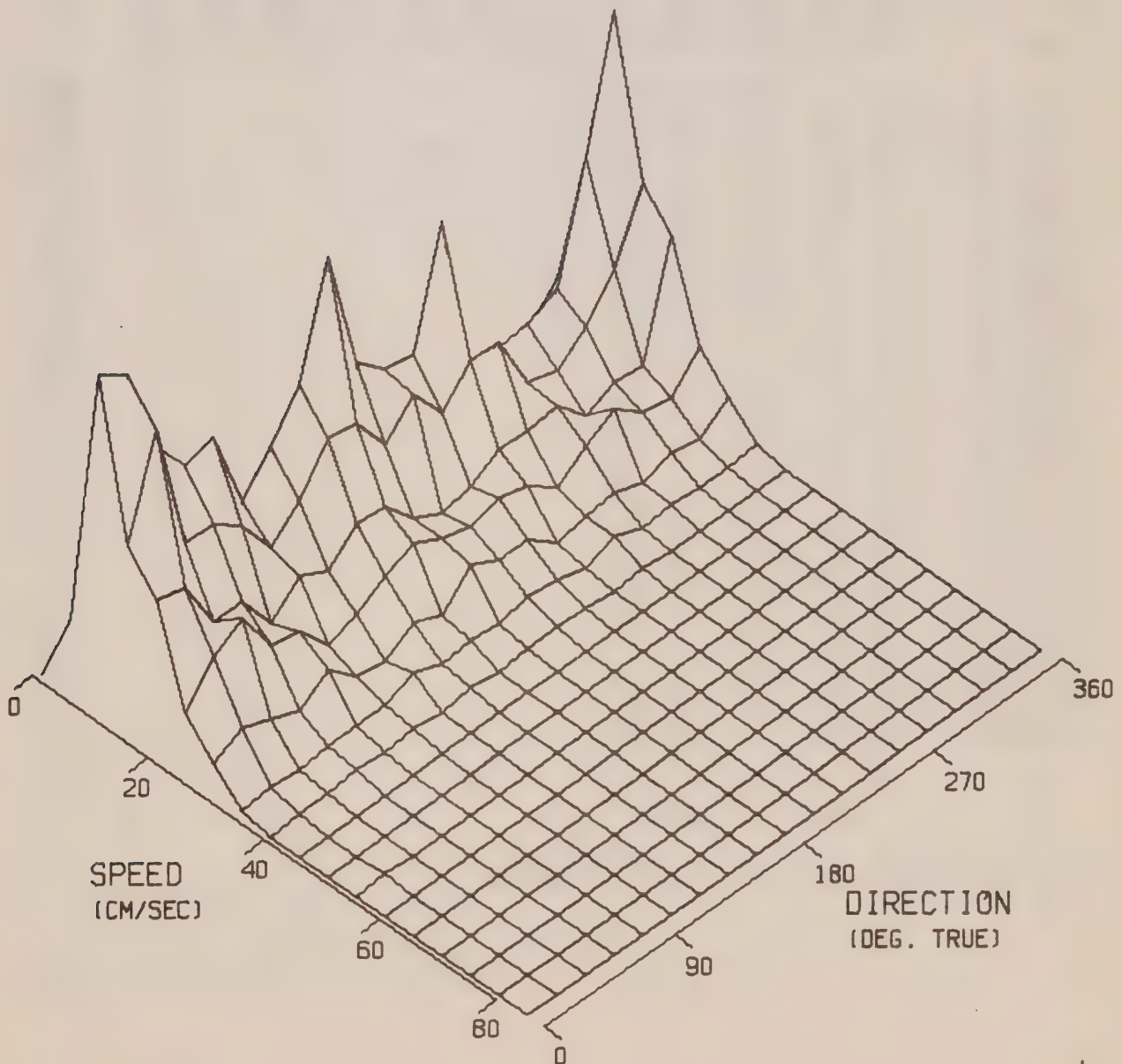
STN. NO. HS-5N

DEPTH 20 M.

STARTING DATE: 16/ 5/73    ENDING DATE: 7/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.  
STARTING DATE: 16/ 5/73  
NO. OF SAMPLES = 3182



STN. NO. H3-5N DEPTH 20 M.

STARTING DATE: 16/ 5/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO 079	080 TO 159	160 TO 239	240 TO 319	320 TO 399	400 TO 479	480 TO 559	560 TO 639	640 TO 719	720 TO 799	800 TO 879	880 TO 959
0- 14	017	110	054	020	001							202
15- 29	020	137	069	028	005							259
30- 44	020	072	047	030	004			001				174
45- 59	010	087	047	019	003	001						167
60- 74	011	074	027	022	001	001						136
75- 89	012	066	027	020	004							129
90-104	013	035	026	009	003	001						87
105-119	011	057	029	010	006							113
120-134	011	061	024	013	002	001						112
135-149	017	075	041	019	002	001						155
150-164	050	095	031	017	001							194
165-179	024	075	025	016	005							145
180-194	017	059	026	021	005	001						129
195-209	004	060	026	014	007							111
210-224	005	053	020	016	006							100
225-239	008	057	026	013	001							105
240-254	025	079	033	009	002							148
255-269	010	043	028	008	005							94
270-284	008	029	031	011	001							80
285-299	004	028	016	012	002							62
300-314	015	034	019	014								82
315-329	012	037	020	014	001							84
330-344	017	071	017	008	001							114
345-359	032	108	038	018	001							197
	373	747		69		0		0		0		3179
	1602		381		6		1		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 3



## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M. START DATE 16/05/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	60	120	180	240	300
6	0	0	.	.	.	.	.
18	0	0					
30	12	0	**				
42	22	1	****				
54	93	3	*****				
66	170	5	*****				
78	163	5	*****				
90	266	8	*****				
102	289	9	*****				
114	300	9	*****				
126	228	7	*****				
138	200	6	*****				
150	185	6	*****				
162	153	5	*****				
174	144	5	*****				
186	120	4	*****				
198	89	3	*****				
210	109	3	*****				
222	112	4	*****				
234	109	3	*****				
246	50	2	*****				
258	80	3	*****				
270	64	2	*****				
282	56	2	*****				
294	49	2	*****				
306	24	1	****				
318	24	1	****				
330	16	1	***				
342	16	1	***				
354	15	0	***				
366	6	0	*				
378	6	0	*				
390	2	0					
402	3	0	*				
414	3	0	*				
426	0	0					
438	0	0					
450	0	0					
462	0	0					
474	0	0					

NO. OF SAMPLES OVER 480 = 4  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3182  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M. START DATE 16/05/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	40	80	120	160	200
5	149	5	*****	*****	*****	*****	*****
15	173	5	*****	*****	*****	*****	*****
25	155	5	*****	*****	*****	*****	*****
35	113	4	*****	*****	*****	*****	*****
45	118	4	*****	*****	*****	*****	*****
55	107	3	*****	*****	*****	*****	*****
65	87	3	*****	*****	*****	*****	*****
75	82	3	*****	*****	*****	*****	*****
85	93	3	*****	*****	*****	*****	*****
95	52	2	*****	*****	*****	*****	*****
105	73	2	*****	*****	*****	*****	*****
115	74	2	*****	*****	*****	*****	*****
125	70	2	*****	*****	*****	*****	*****
135	93	3	*****	*****	*****	*****	*****
145	110	3	*****	*****	*****	*****	*****
155	128	4	*****	*****	*****	*****	*****
165	129	4	*****	*****	*****	*****	*****
175	74	2	*****	*****	*****	*****	*****
185	96	3	*****	*****	*****	*****	*****
195	73	2	*****	*****	*****	*****	*****
205	73	2	*****	*****	*****	*****	*****
215	74	2	*****	*****	*****	*****	*****
225	60	2	*****	*****	*****	*****	*****
235	74	2	*****	*****	*****	*****	*****
245	111	3	*****	*****	*****	*****	*****
255	69	2	*****	*****	*****	*****	*****
265	56	2	*****	*****	*****	*****	*****
275	53	2	*****	*****	*****	*****	*****
285	48	2	*****	*****	*****	*****	*****
295	43	1	*****	*****	*****	*****	*****
305	57	2	*****	*****	*****	*****	*****
315	57	2	*****	*****	*****	*****	*****
325	52	2	*****	*****	*****	*****	*****
335	85	3	*****	*****	*****	*****	*****
345	82	3	*****	*****	*****	*****	*****
355	139	4	*****	*****	*****	*****	*****
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3182  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M. START DATE 16/05/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	120	240	360	480	600
7.23	0	0	.	.	.	.	.
7.29	6	0	*				
7.35	99	3	*****				
7.41	312	10	*****				
7.47	249	8	*****				
7.53	453	14	*****				
7.59	511	16	*****				
7.65	403	13	*****				
7.71	228	7	*****				
7.77	129	4	*****				
7.83	26	1	**				
7.89	21	1	**				
7.95	13	0	*				
8.01	16	1	*				
8.07	14	0	*				
8.13	3	0					
8.19	5	0					
8.25	4	0					
8.31	1	0					
8.37	2	0					
8.43	8	0	*				
8.49	15	0	*				
8.55	21	1	**				
8.61	16	1	*				
8.67	52	2	****				
8.73	104	3	*****				
8.79	47	1	****				
8.85	79	2	*****				
8.91	106	3	*****				
8.97	77	2	*****				
9.03	79	2	*****				
9.09	24	1	**				
9.15	28	1	**				
9.21	8	0	*				
9.27	3	0					
9.33	8	0	*				
9.39	6	0	*				
9.45	4	0					
9.51	1	0					
9.57	1	0					

NO. OF SAMPLES OVER 9.60 = 0

NO. OF SAMPLES UNDER 7.20 = 0

TOTAL NO. OF OBSERVATIONS = 3182

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 16/05/73

MEDIAN (PPT)	FREQUENCY NO. PCT .	90 .	180 .	270 .	360 .	450 .
27.43	0 0					
27.49	2 0					
27.55	10 0					
27.61	23 1					
27.67	33 1					
27.73	16 1					
27.79	27 1					
27.85	30 1					
27.91	55 2					
27.97	60 2					
28.03	36 1					
28.09	36 1					
28.15	34 1					
28.21	53 2					
28.27	27 1					
28.33	65 2					
28.39	54 2					
28.45	39 1					
28.51	36 1					
28.57	23 1					
28.63	19 1					
28.69	13 0					
28.75	14 0					
28.81	18 1					
28.87	18 1					
28.93	39 1					
28.99	29 1					
29.05	60 2					
29.11	105 3					
29.17	161 5					
29.23	343 11					
29.29	245 8					
29.35	246 8					
29.41	235 7					
29.47	415 13					
29.53	299 9					
29.59	209 7					
29.65	38 1					
29.71	17 1					
29.77	0 0					

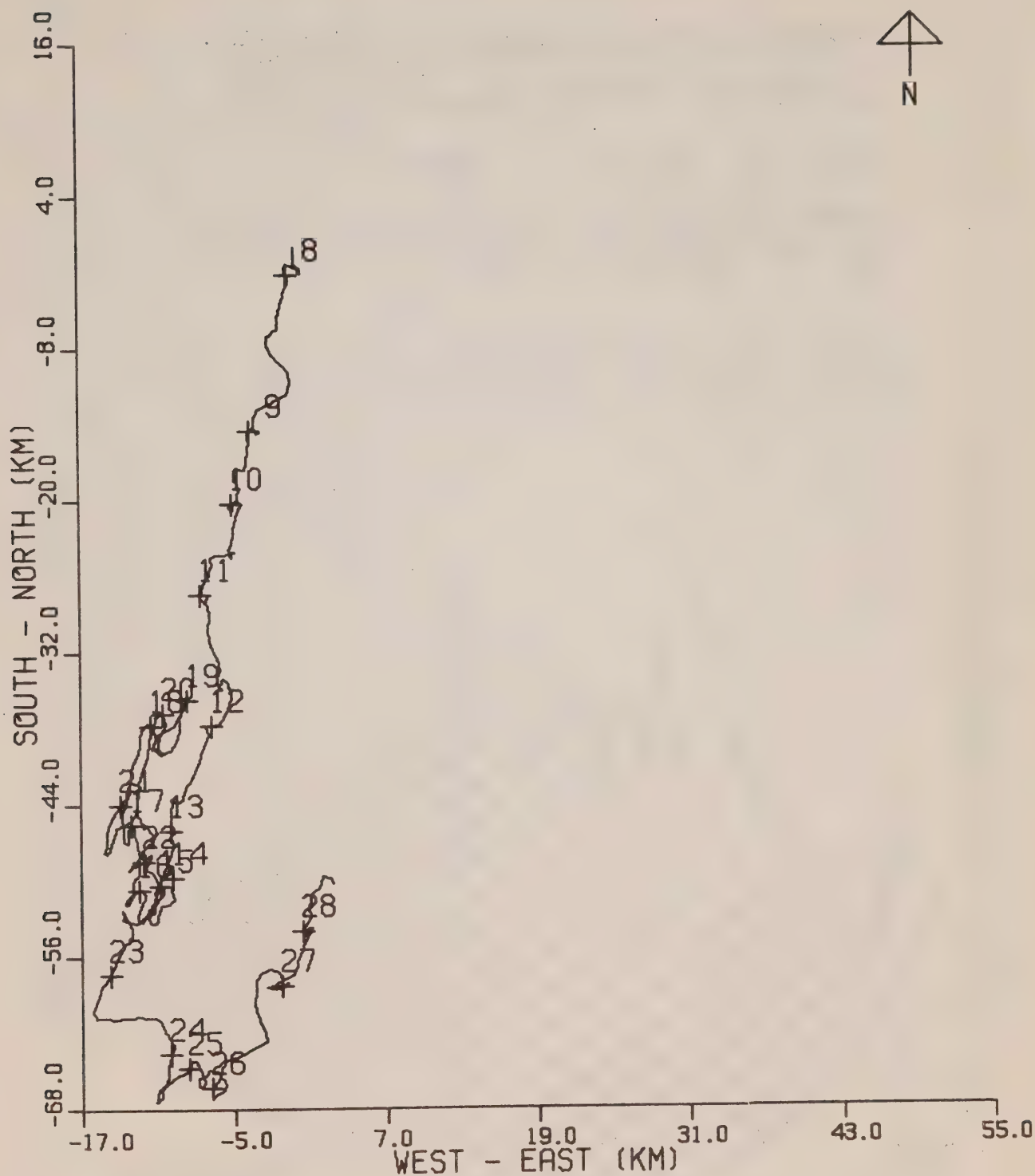
NO. OF SAMPLES OVER 29.80 = 0

NO. OF SAMPLES UNDER 27.40 = 0

TOTAL NO. OF OBSERVATIONS = 3182

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5N

DEPTH 20 M.

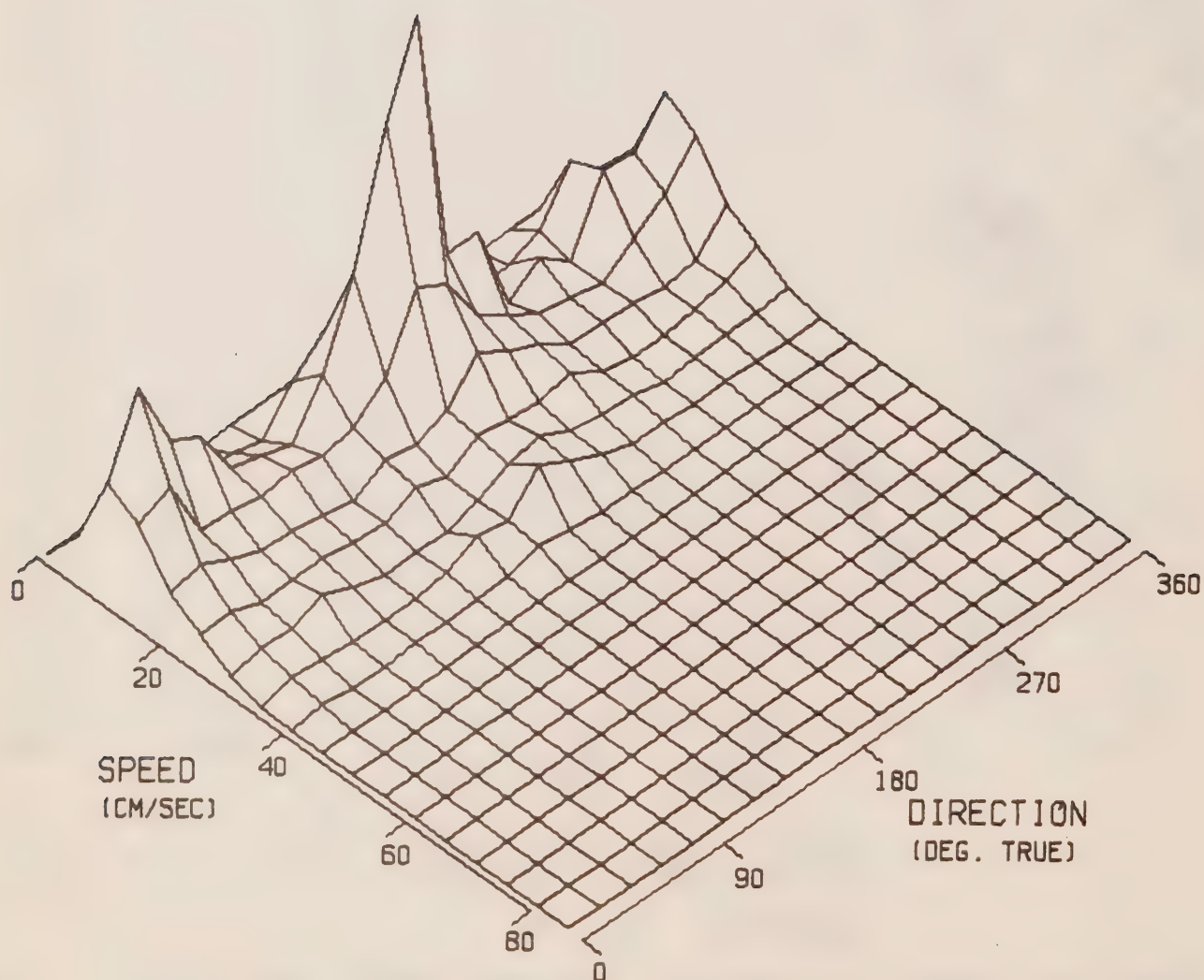
STARTING DATE: 7/ 6/73    ENDING DATE: 28/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 7/ 6/73

NO. OF SAMPLES = 2994



STN. NO. H8-5N DEPTH 20 M.

STARTING DATE: 7/ 6/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	021	097	034	018									170
15- 29	026	125	032	019	009								211
30- 44	016	075	023	012	004								130
45- 59	006	045	028	018				001					98
60- 74	009	053	022	013	001								98
75- 89	006	024	019	009	002								60
90-104	005	032	019	007	002								65
105-119	007	021	014	001	001								44
120-134	011	020	013	009	005								58
135-149	020	047	022	009	014								112
150-164	041	098	024	009	010					001			183
165-179	019	087	017	016	018								157
180-194	063	216	032	030	028	001							370
195-209	102	180	053	021	015								371
210-224	040	069	035	019	009								172
225-239	024	079	027	021	006								157
240-254	007	038	021	010	005								81
255-269	002	012	012	006									32
270-284	005	027	011	003	001								47
285-299	007	011	005	004	001								28
300-314	014	024	010	002	002								52
315-329	036	052	008	007									103
330-344	008	042	017	009	001								77
345-359	019	068	020	010	001								118
	514	518	135		0		0		1			2994	
	1542	282		1		1		0		0			

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M. START DATE 07/06/73

MEDIAN (MM/S)	FREQINCY NO. PCT	80	160	240	320	400
5	0 0	.	.	.	.	.
15	0 0					
25	3 0					
35	4 0	*				
45	21 1	***				
55	139 5	*****				
65	150 5	*****				
75	197 7	*****				
85	340 11	*****				
95	200 7	*****				
105	275 9	*****				
115	156 5	*****				
125	214 7	*****				
135	115 4	*****				
145	152 5	*****				
155	90 3	*****				
165	68 2	*****				
175	94 3	*****				
185	77 3	*****				
195	80 3	*****				
205	45 2	*****				
215	69 2	*****				
225	49 2	*****				
235	51 2	*****				
245	30 1	****				
255	33 1	****				
265	57 2	*****				
275	34 1	****				
285	43 1	*****				
295	30 1	****				
305	26 1	***				
315	14 0	**				
325	9 0	*				
335	23 1	***				
345	24 1	***				
355	39 1	*****				
365	12 0	**				
375	15 1	**				
385	7 0	*				
395	7 0	*				

NO. OF SAMPLES OVER 400 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2994  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M. START DATE 07/06/73

MEDIAN (DEG.T)	FREQUNCY NO.	PCT	60	120	180	240	300
5	119	4	*****				
15	136	5	*****				
25	136	5	*****				
35	92	3	*****				
45	65	2	*****				
55	66	2	*****				
65	70	2	*****				
75	51	2	*****				
85	41	1	*****				
95	42	1	*****				
105	35	1	*****				
115	24	1	****				
125	37	1	*****				
135	49	2	*****				
145	94	3	*****				
155	111	4	*****				
165	109	4	*****				
175	131	4	*****				
185	250	8	*****				
195	276	9	*****				
205	219	7	*****				
215	97	3	*****				
225	104	3	*****				
235	109	4	*****				
245	55	2	*****				
255	26	1	****				
265	27	1	*****				
275	28	1	*****				
285	28	1	*****				
295	20	1	***				
305	26	1	****				
315	76	3	*****				
325	52	2	*****				
335	50	2	*****				
345	62	2	*****				
355	81	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2994  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 07/06/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	60 .	120 .	180 .	240 .	300 .
7.72	0	0					
7.76	0	0					
7.80	3	0	*				
7.84	29	1	*****				
7.88	116	4	*****				
7.92	225	8	*****				
7.96	153	5	*****				
8.00	189	6	*****				
8.04	190	6	*****				
8.08	281	9	*****				
8.12	286	10	*****				
8.16	114	4	*****				
8.20	177	6	*****				
8.24	166	6	*****				
8.28	96	3	*****				
8.32	66	2	*****				
8.36	113	4	*****				
8.40	104	3	*****				
8.44	114	4	*****				
8.48	61	2	*****				
8.52	113	4	*****				
8.56	103	3	*****				
8.60	104	3	*****				
8.64	43	1	*****				
8.68	49	2	*****				
8.72	52	2	*****				
8.76	19	1	***				
8.80	9	0	**				
8.84	6	0	*				
8.88	7	0	*				
8.92	3	0	*				
8.96	2	0					
9.00	0	0					
9.04	1	0					
9.08	0	0					
9.12	0	0					
9.16	0	0					
9.20	0	0					
9.24	0	0					
9.28	0	0					

NO. OF SAMPLES OVER 9.30 = 0

NO. OF SAMPLES UNDER 7.70 = 0

TOTAL NO. OF OBSERVATIONS = 2994

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS=5N DEPTH 20M, START DATE 07/06/73

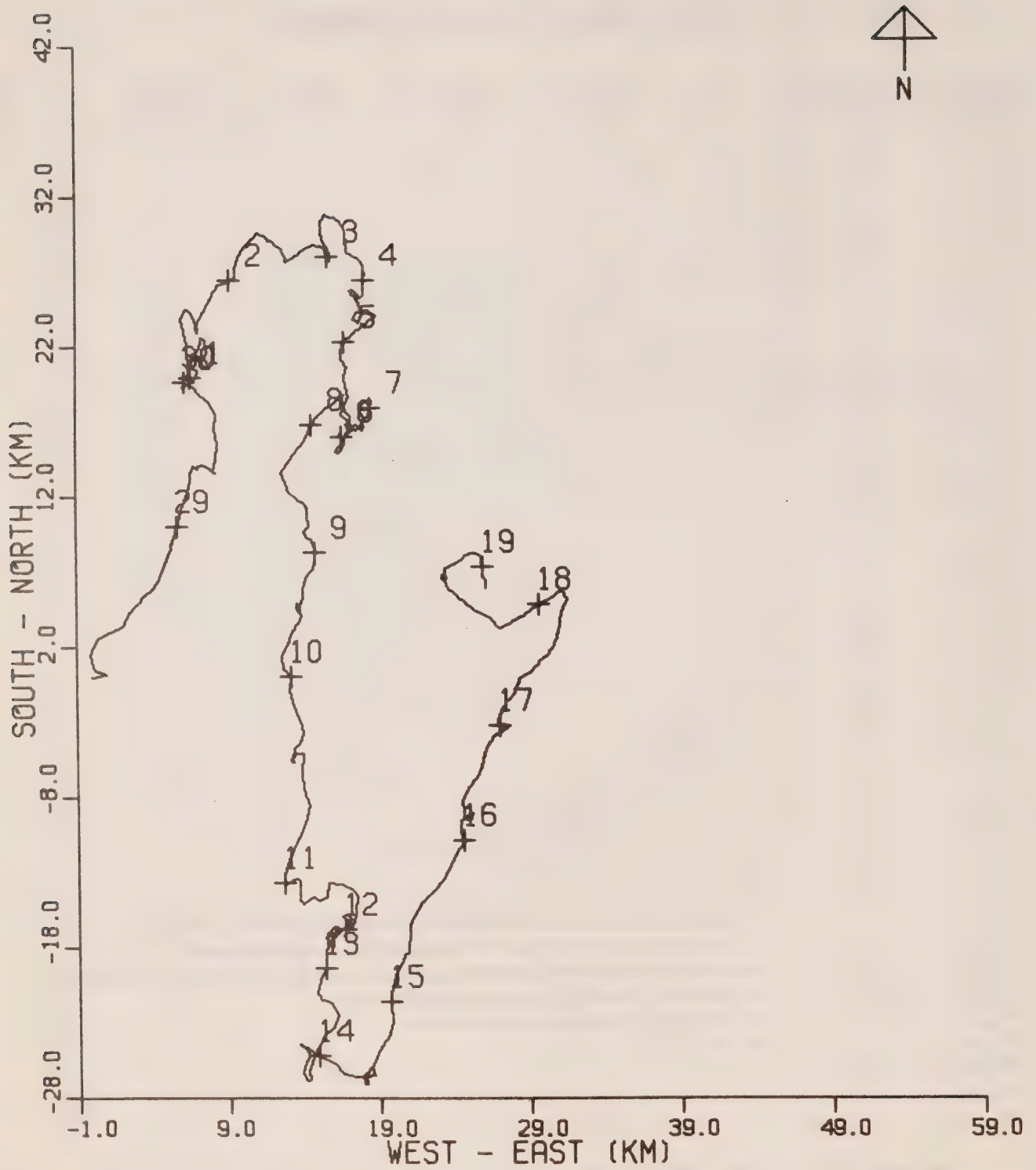
MEDIAN (PPT)	FREQUENCY NO.	PCT	80	160	240	320	400
27.97	3	0	.	.	.	.	.
28.01	13	0	**				
28.05	3	0					
28.09	13	0	**				
28.13	14	0	**				
28.17	24	1	***				
28.21	11	0	*				
28.25	9	0	*				
28.29	18	1	**				
28.33	13	0	**				
28.37	12	0	**				
28.41	10	0	*				
28.45	16	1	**				
28.49	14	0	**				
28.53	28	1	****				
28.57	24	1	***				
28.61	18	1	**				
28.65	23	1	***				
28.69	22	1	***				
28.73	14	0	**				
28.77	32	1	****				
28.81	27	1	***				
28.85	23	1	***				
28.89	49	2	*****				
28.93	75	3	*****				
28.97	95	3	*****				
29.01	148	5	*****				
29.05	147	5	*****				
29.09	198	7	*****				
29.13	149	5	*****				
29.17	197	7	*****				
29.21	332	11	*****				
29.25	334	11	*****				
29.29	373	12	*****				
29.33	222	7	*****				
29.37	190	6	*****				
29.41	74	2	*****				
29.45	22	1	***				
29.49	5	0	*				
29.53	0	0					

NO. OF SAMPLES OVER 29.55 = 0

NO. OF SAMPLES UNDER 27.95 = 0

TOTAL NO. OF OBSERVATIONS = 2994

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

STARTING DATE: 28/ 6/73    ENDING DATE: 19/ 7/73

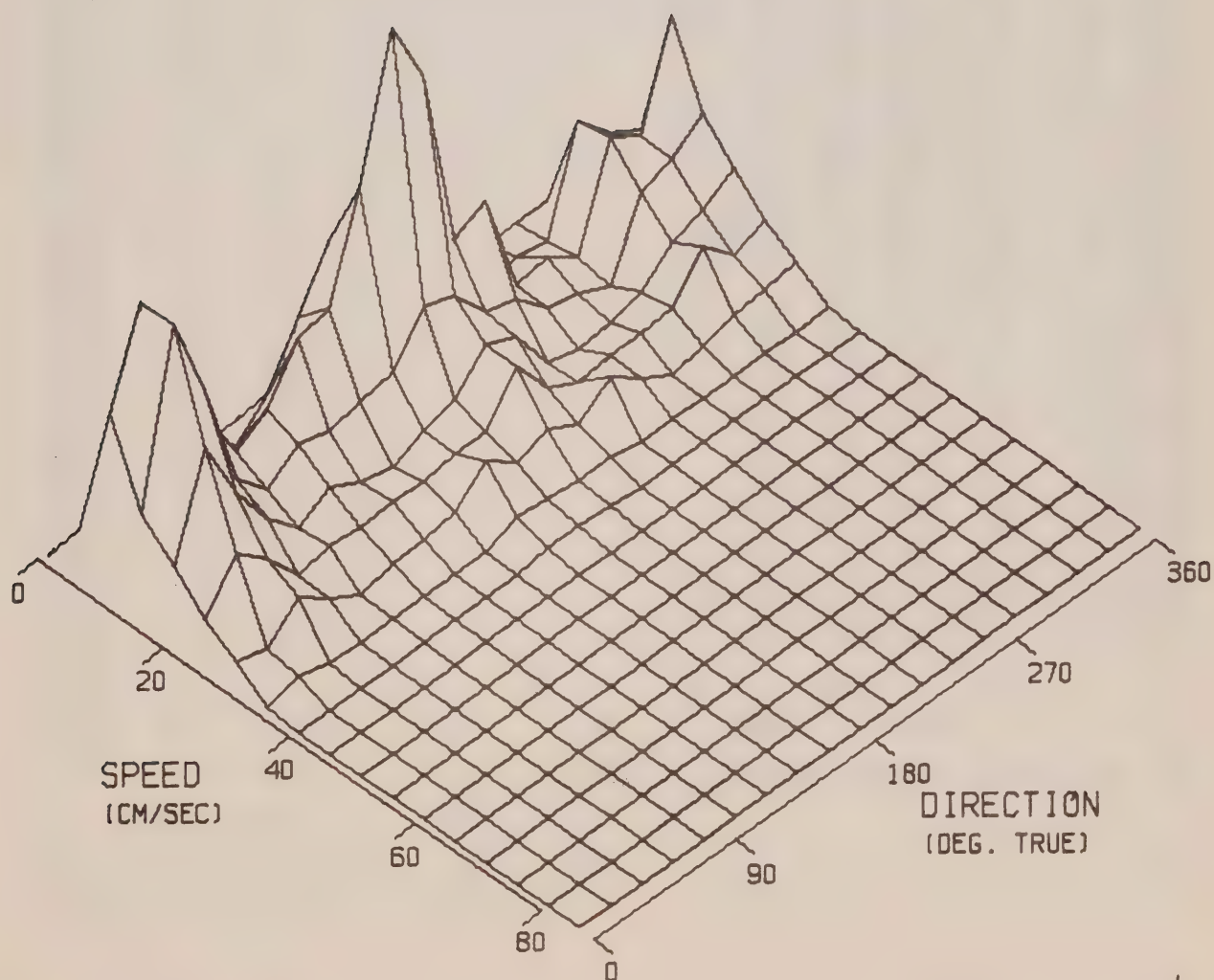


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 28/ 6/73

NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 28/ 6/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

DIR	000 TO	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	019	085	052	020	002								178
15- 29	020	157	097	023	004								301
30- 44	009	093	061	028	001								192
45- 59	014	065	040	016	002								137
60- 74	007	049	018	009									83
75- 89	004	024	017	007	001								53
90-104	007	038	016	005	001								67
105-119	015	034	024	010	001								84
120-134	029	055	022	013	002								121
135-149	033	042	018	013									106
150-164	066	063	013	019	006								167
165-179	060	132	028	019	006								245
180-194	034	139	020	016	004								213
195-209	045	117	038	033	006								239
210-224	011	049	034	017	003								114
225-239	038	063	009	020									130
240-254	018	023	009	016	001								67
255-269	003	012	004	009									28
270-284	004	012	004	005									25
285-299	004	007	008	006									25
300-314	012	008	014	016									50
315-329	036	054	026	019	002								137
330-344	023	041	016	013	001								94
345-359	020	068	040	013									141
	531	628	43	0	0	0	0	0	0	0	0	0	2997
	1430	365	0	0	0	0	0	0	0	0	0	0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 28/06/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	70	140	210	280	350
5	0 0	.	.	.	.	.
15	1 0					
25	4 0	*				
35	7 0	*				
45	33 1	*****				
55	125 4	*****				
65	163 5	*****				
75	198 7	*****				
85	355 12	*****				
95	192 6	*****				
105	237 8	*****				
115	130 4	*****				
125	183 6	*****				
135	103 3	*****				
145	148 5	*****				
155	82 3	*****				
165	83 3	*****				
175	113 4	*****				
185	76 3	*****				
195	121 4	*****				
205	55 2	*****				
215	70 2	*****				
225	51 2	*****				
235	88 3	*****				
245	59 2	*****				
255	41 1	*****				
265	61 2	*****				
275	32 1	*****				
285	51 2	*****				
295	38 1	*****				
305	34 1	*****				
315	20 1	***				
325	13 0	**				
335	14 0	**				
345	5 0	*				
355	5 0	*				
365	1 0					
375	3 0					
385	1 0					
395	1 0					

NO. OF SAMPLES OVER 400 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M. START DATE 28/06/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	120	4	*****	.	.	.	.
15	158	5	*****				
25	215	7	*****				
35	137	5	*****				
45	109	4	*****				
55	78	3	*****				
65	58	2	*****				
75	39	1	*****				
85	34	1	*****				
95	48	2	*****				
105	59	2	*****				
115	48	2	*****				
125	83	3	*****				
135	66	2	*****				
145	90	3	*****				
155	105	4	*****				
165	145	5	*****				
175	168	6	*****				
185	137	5	*****				
195	152	5	*****				
205	152	5	*****				
215	68	2	*****				
225	78	3	*****				
235	93	3	*****				
245	47	2	*****				
255	27	1	*****				
265	15	1	***				
275	16	1	***				
285	22	1	****				
295	12	0	**				
305	17	1	***				
315	107	4	*****				
325	65	2	*****				
335	68	2	*****				
345	79	3	*****				
355	85	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 28/06/73

MEDIAN (DEG.C)	FREQ NO.	PCT	70	140	210	280	350
8.04	0	0	.	.	.	.	.
8.12	0	0					
8.20	0	0					
8.28	26	1	****				
8.36	94	3	*****				
8.44	187	6	*****				
8.52	280	9	*****				
8.60	129	4	*****				
8.68	173	6	*****				
8.76	115	4	*****				
8.84	148	5	*****				
8.92	243	8	*****				
9.00	325	11	*****				
9.08	159	5	*****				
9.16	247	8	*****				
9.24	220	7	*****				
9.32	198	7	*****				
9.40	65	2	*****				
9.48	36	1	*****				
9.56	19	1	****				
9.64	29	1	****				
9.72	45	2	*****				
9.80	16	1	**				
9.88	4	0	*				
9.96	9	0	*				
10.04	4	0	*				
10.12	18	1	***				
10.20	13	0	**				
10.28	60	2	*****				
10.36	38	1	*****				
10.44	38	1	*****				
10.52	6	0	*				
10.60	10	0	*				
10.68	10	0	*				
10.76	5	0	*				
10.84	7	0	*				
10.92	13	0	**				
11.00	11	0	**				
11.08	0	0					
11.16	0	0					

NO. OF SAMPLES OVER 11.20 = 0  
 NO. OF SAMPLES UNDER 8.00 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 28/06/73

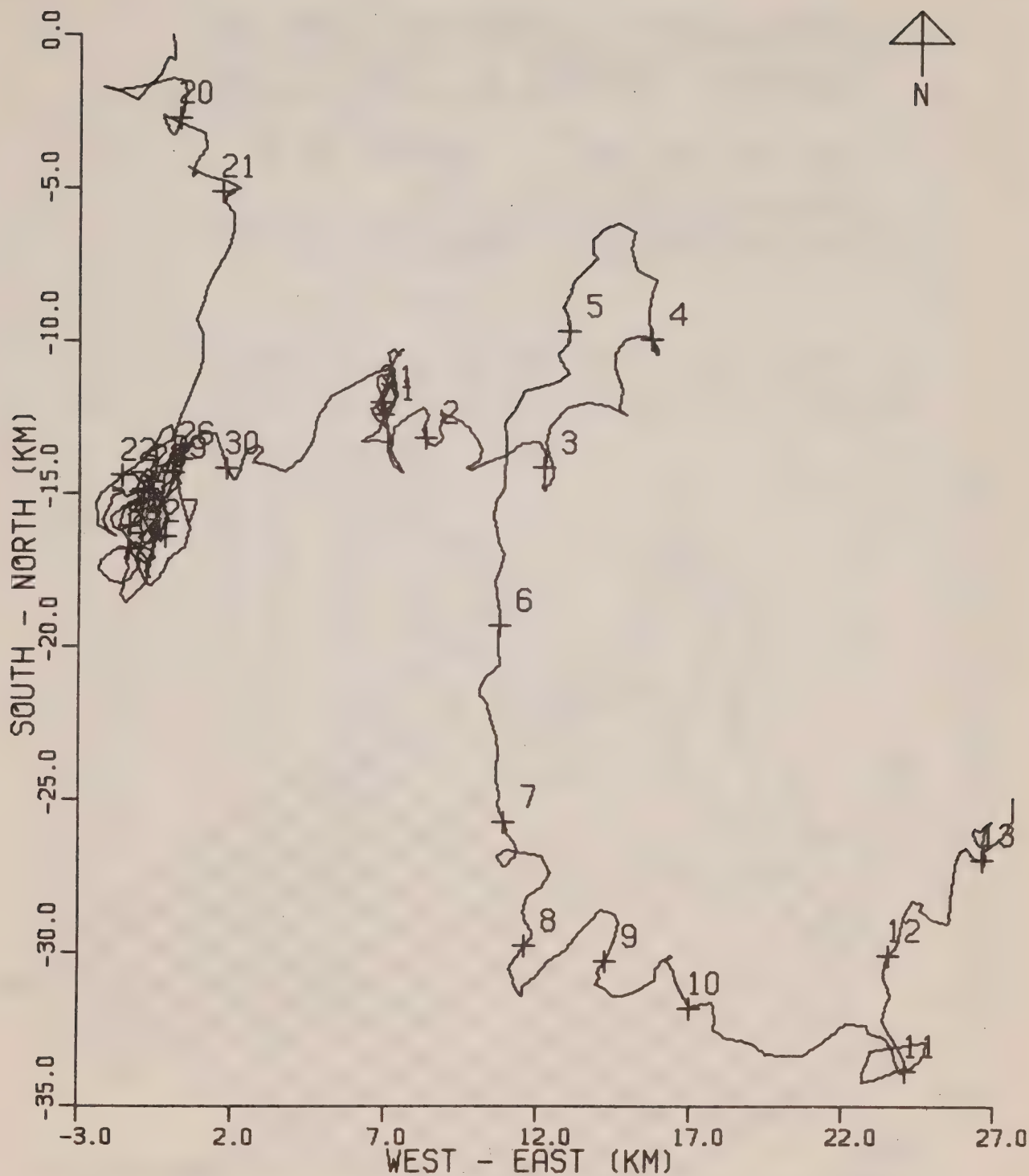
MEDIAN (PPT)	FREQUENCY NO. PCT.	50	100	150	200	250
27.33	0 0	.	.	.	.	.
27.39	0 0					
27.45	0 0					
27.51	0 0					
27.57	2 0					
27.63	11 0	**				
27.69	22 1	****				
27.75	22 1	****				
27.81	27 1	*****				
27.87	42 1	*****				
27.93	17 1	***				
27.99	39 1	*****				
28.05	37 1	*****				
28.11	39 1	*****				
28.17	50 2	*****				
28.23	55 2	*****				
28.29	67 2	*****				
28.35	116 4	*****				
28.41	160 5	*****				
28.47	184 6	*****				
28.53	153 5	*****				
28.59	119 4	*****				
28.65	118 4	*****				
28.71	125 4	*****				
28.77	107 4	*****				
28.83	101 3	*****				
28.89	162 5	*****				
28.95	194 6	*****				
29.01	163 5	*****				
29.07	186 6	*****				
29.13	220 7	*****				
29.19	217 7	*****				
29.25	127 4	*****				
29.31	92 3	*****				
29.37	26 1	*****				
29.43	0 0					
29.49	0 0					
29.55	0 0					
29.61	0 0					
29.67	0 0					

NO. OF SAMPLES OVER 29.70 = 0

NO. OF SAMPLES UNDER 27.30 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

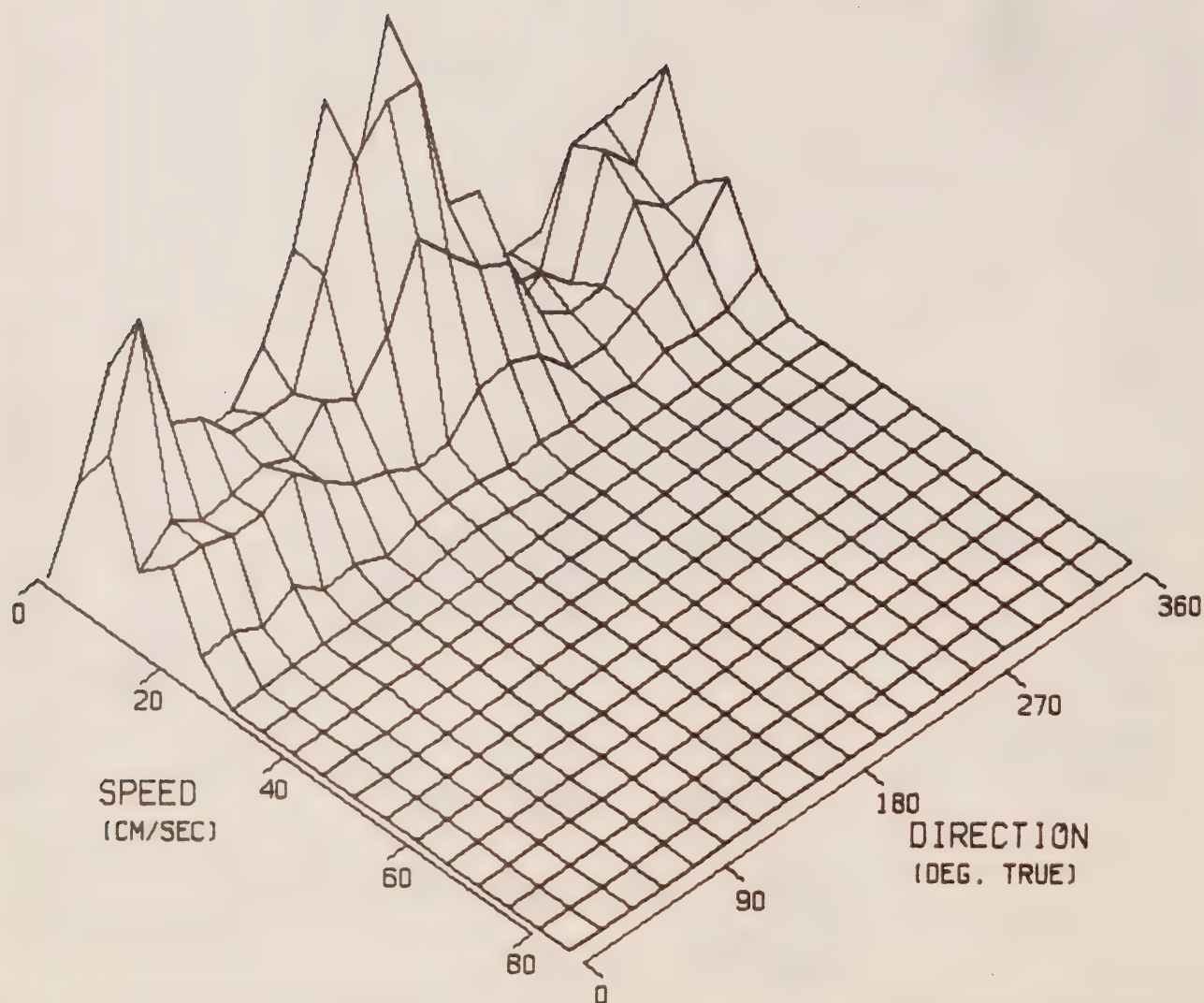
STARTING DATE: 19/ 7/73    ENDING DATE: 13/ 8/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 19/ 7/73

NO. OF SAMPLES = 3662





STN. NO. H8-5N DEPTH 20 M.

STARTING DATE: 19/ 7/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	049	077	037	006		001							170
15- 29	095	110	056	001									262
30- 44	054	073	041	002									170
45- 59	033	052	032	003	001								121
60- 74	028	065	049	004									146
75- 89	031	053	043	002									129
90-104	029	055	038	001									123
105-119	034	045	029	004									112
120-134	051	062	024										137
135-149	080	094	020	002									196
150-164	114	108	016	007									245
165-179	100	133	019	006									258
180-194	087	144	036	002									269
195-209	170	140	037										347
210-224	072	076	041										189
225-239	043	098	049	002									192
240-254	014	044	016										74
255-269	003	012	016	001									32
270-284	004	023	009										36
285-299	002	017	005	001									25
300-314	008	021	016	003									48
315-329	045	070	028										143
330-344	034	036	026	001									97
345-359	043	053	042								001		139
	1223		725		1		0		0		0		3660
		1661		48		1		0		0		1	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 2

## HISTOGRAM OF SPEED

HOWE SOUND HS-5M DEPTH 20M. START DATE 19/07/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	60	120	180	240	300
4	0 0	.	.	.	.	.
12	2 0					
20	15 0	***				
28	35 1	*****				
36	113 3	*****				
44	146 4	*****				
52	212 6	*****				
60	255 7	*****				
68	295 8	*****				
76	150 4	*****				
84	257 7	*****				
92	239 7	*****				
100	180 5	*****				
108	176 5	*****				
116	168 5	*****				
124	148 4	*****				
132	127 3	*****				
140	123 3	*****				
148	117 3	*****				
156	126 3	*****				
164	108 3	*****				
172	99 3	*****				
180	98 3	*****				
188	93 3	*****				
196	83 2	*****				
204	63 2	*****				
212	74 2	*****				
220	45 1	*****				
228	41 1	*****				
236	29 1	*****				
244	7 0	*				
252	13 0	**				
260	5 0	*				
268	5 0	*				
276	2 0					
284	0 0					
292	5 0	*				
300	1 0					
308	2 0					
316	0 0					

NO. OF SAMPLES OVER 320 = 5  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3662  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 19/07/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	126	3	*****				
15	140	4	*****				
25	181	5	*****				
35	106	3	*****				
45	99	3	*****				
55	81	2	*****				
65	104	3	*****				
75	80	2	*****				
85	89	2	*****				
95	83	2	*****				
105	69	2	*****				
115	82	2	*****				
125	91	2	*****				
135	94	3	*****				
145	147	4	*****				
155	163	4	*****				
165	196	5	*****				
175	159	4	*****				
185	196	5	*****				
195	205	6	*****				
205	208	6	*****				
215	140	4	*****				
225	109	3	*****				
235	122	3	*****				
245	58	2	*****				
255	25	1	*****				
265	23	1	*****				
275	20	1	****				
285	23	1	*****				
295	19	1	****				
305	22	1	****				
315	93	3	*****				
325	75	2	*****				
335	56	2	*****				
345	93	3	*****				
355	85	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3662  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 19/07/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	70	140	210	280	350
8.74	2	0	.	.	.	.	.
8.82	6	0	*				
8.90	98	3	*****				
8.98	40	1	*****				
9.06	130	4	*****				
9.14	169	5	*****				
9.22	343	9	*****				
9.30	174	5	*****				
9.38	284	8	*****				
9.46	228	6	*****				
9.54	278	8	*****				
9.62	277	8	*****				
9.70	175	5	*****				
9.78	132	4	*****				
9.86	119	3	*****				
9.94	205	6	*****				
10.02	138	4	*****				
10.10	181	5	*****				
10.18	149	4	*****				
10.26	90	2	*****				
10.34	53	1	*****				
10.42	63	2	*****				
10.50	44	1	*****				
10.58	24	1	***				
10.66	14	0	**				
10.74	19	1	***				
10.82	18	0	***				
10.90	19	1	***				
10.98	25	1	****				
11.06	23	1	***				
11.14	28	1	****				
11.22	24	1	***				
11.30	29	1	****				
11.38	13	0	**				
11.46	16	0	**				
11.54	9	0	*				
11.62	6	0	*				
11.70	17	0	**				
11.78	0	0					
11.86	0	0					

NO. OF SAMPLES OVER 11.90 = 0

NO. OF SAMPLES UNDER 8.70 = 0

TOTAL NO. OF OBSERVATIONS = 3662

SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 19/07/73

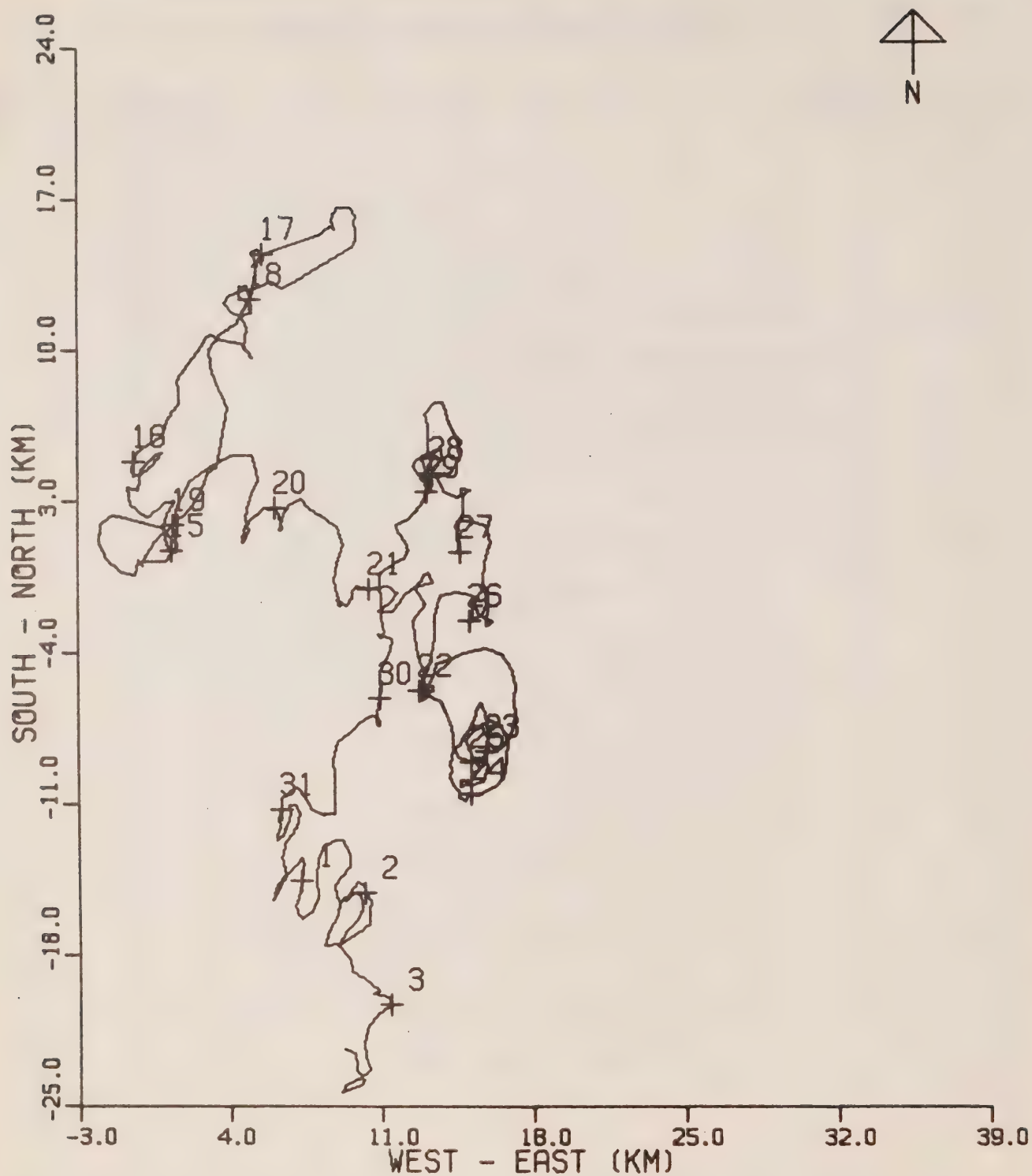
MEDIAN (PPT)	FREQUENCY NO.	PCT	70	140	210	280	350
26.93	2	0	.	.	.	.	.
26.99	1	0					
27.05	1	0					
27.11	8	0	*				
27.17	13	0	**				
27.23	21	1	***				
27.29	16	0	**				
27.35	31	1	*****				
27.41	57	2	*****				
27.47	40	1	*****				
27.53	27	1	*****				
27.59	57	2	*****				
27.65	49	1	*****				
27.71	61	2	*****				
27.77	62	2	*****				
27.83	49	1	*****				
27.89	57	2	*****				
27.95	53	1	*****				
28.01	48	1	*****				
28.07	49	1	*****				
28.13	83	2	*****				
28.19	79	2	*****				
28.25	111	3	*****				
28.31	170	5	*****				
28.37	119	3	*****				
28.43	127	3	*****				
28.49	168	5	*****				
28.55	156	4	*****				
28.61	196	5	*****				
28.67	157	4	*****				
28.73	246	7	*****				
28.79	245	7	*****				
28.85	222	6	*****				
28.91	221	6	*****				
28.97	271	7	*****				
29.03	178	5	*****				
29.09	170	5	*****				
29.15	38	1	*****				
29.21	3	0					
29.27	0	0					

NO. OF SAMPLES OVER 29.30 = 0

NO. OF SAMPLES UNDER 26.90 = 0

TOTAL NO. OF OBSERVATIONS = 3662

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

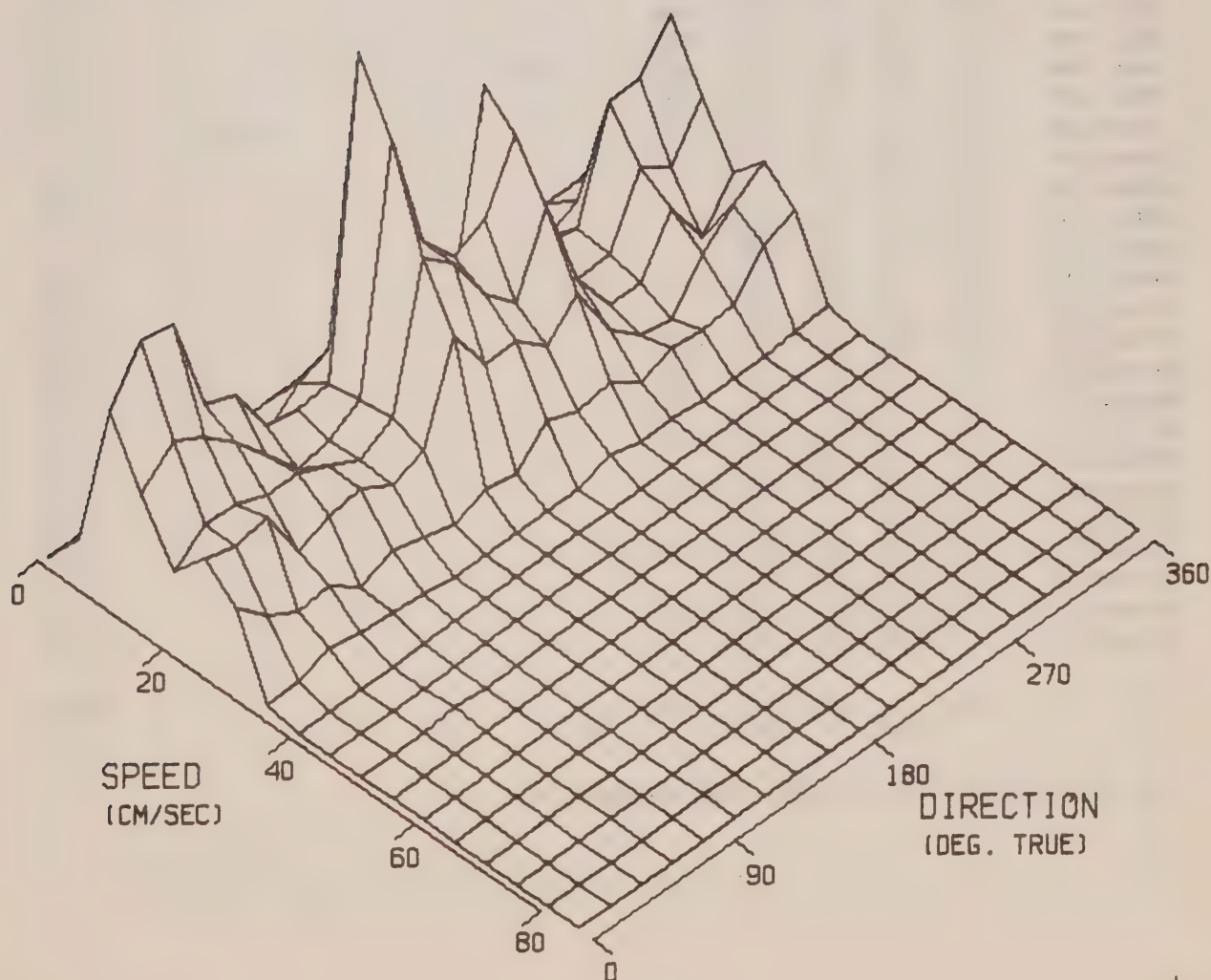
STARTING DATE: 14/ 8/73    ENDING DATE: 3/ 9/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 14/ 8/73

NO. OF SAMPLES = 2908



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 14/ 8/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	020	071	032	036	002								161
15- 29	025	083	039	029	005								181
30- 44	017	079	045	024	006								171
45- 59	004	058	036	019	003								120
60- 74	007	055	028	023	003	001							117
75- 89	009	038	025	015	003								90
90-104	007	018	031	014	003					001			74
105-119	008	025	019	019									71
120-134	003	018	025	015									61
135-149	013	029	019	012									73
150-164	018	128	078	024									248
165-179	012	116	083	025									236
180-194	013	078	053	020									164
195-209	003	050	053	030	002								138
210-224	006	040	031	017	005								99
225-239	004	079	062	023	004								172
240-254	008	086	060	025	001								180
255-269	010	029	025	009									73
270-284	003	012	010	007	001								33
285-299	001	020	012	012									45
300-314	004	016	014	009	001								44
315-329	010	053	037	023									123
330-344	005	044	017	035	001								102
345-359	011	048	026	037									122
	221	860	40	1	0	0	0	1				2898	
	1273	502	0	0	0	0	0	1					

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 10



## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 14/08/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
5	0	0	.	.	.	.	.
15	1	0					
25	1	0					
35	11	0	**				
45	16	1	***				
55	40	1	*****				
65	53	2	*****				
75	99	3	*****				
85	206	7	*****				
95	150	5	*****				
105	219	8	*****				
115	138	5	*****				
125	199	7	*****				
135	105	4	*****				
145	168	6	*****				
155	88	3	*****				
165	105	4	*****				
175	137	5	*****				
185	99	3	*****				
195	138	5	*****				
205	89	3	*****				
215	133	5	*****				
225	79	3	*****				
235	126	4	*****				
245	85	3	*****				
255	66	2	*****				
265	95	3	*****				
275	57	2	*****				
285	58	2	*****				
295	31	1	*****				
305	37	1	*****				
315	27	1	*****				
325	20	1	***				
335	13	0	**				
345	3	0	*				
355	2	0					
365	1	0					
375	1	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 12  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2908  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 14/08/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	128	4	*****				
15	106	4	*****				
25	126	4	*****				
35	119	4	*****				
45	97	3	*****				
55	62	2	*****				
65	83	3	*****				
75	74	3	*****				
85	56	2	*****				
95	52	2	*****				
105	48	2	*****				
115	43	1	*****				
125	34	1	*****				
135	51	2	*****				
145	51	2	*****				
155	150	5	*****				
165	212	7	*****				
175	135	5	*****				
185	108	4	*****				
195	95	3	*****				
205	88	3	*****				
215	72	2	*****				
225	79	3	*****				
235	133	5	*****				
245	132	5	*****				
255	79	3	*****				
265	28	1	*****				
275	19	1	****				
285	35	1	*****				
295	22	1	****				
305	30	1	*****				
315	66	2	*****				
325	78	3	*****				
335	69	2	*****				
345	73	3	*****				
355	75	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2908  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 14/08/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT		60	120	180	240	300
8.64	0	0						
8.72	42	1	*****					
8.80	49	2	*****					
8.88	41	1	*****					
8.96	59	2	*****					
9.04	220	8	*****					
9.12	83	3	*****					
9.20	193	7	*****					
9.28	237	8	*****					
9.36	225	8	*****					
9.44	228	8	*****					
9.52	270	9	*****					
9.60	137	5	*****					
9.68	140	5	*****					
9.76	55	2	*****					
9.84	139	5	*****					
9.92	88	3	*****					
10.00	90	3	*****					
10.08	40	1	*****					
10.16	55	2	*****					
10.24	72	2	*****					
10.32	69	2	*****					
10.40	86	3	*****					
10.48	47	2	*****					
10.56	30	1	*****					
10.64	18	1	***					
10.72	39	1	*****					
10.80	20	1	***					
10.88	18	1	***					
10.96	15	1	***					
11.04	37	1	*****					
11.12	22	1	****					
11.20	18	1	***					
11.28	19	1	***					
11.36	7	0	*					
11.44	0	0						
11.52	0	0						
11.60	0	0						
11.68	0	0						
11.76	0	0						

NO. OF SAMPLES OVER 11.80 = 0

NO. OF SAMPLES UNDER 8.60 = 0

TOTAL NO. OF OBSERVATIONS = 2908

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 14/08/73

MEDIAN (PPT)	FREQUENCY NO. PCT	50	100	150	200	250
27.43	0 0	.	.	.	.	.
27.49	0 0					
27.55	1 0					
27.61	4 0	*				
27.67	2 0					
27.73	14 0	***				
27.79	31 1	*****				
27.85	59 2	*****				
27.91	48 2	*****				
27.97	50 2	*****				
28.03	45 2	*****				
28.09	22 1	****				
28.15	24 1	*****				
28.21	38 1	*****				
28.27	61 2	*****				
28.33	119 4	*****				
28.39	76 3	*****				
28.45	77 3	*****				
28.51	83 3	*****				
28.57	70 2	*****				
28.63	79 3	*****				
28.69	86 3	*****				
28.75	139 5	*****				
28.81	174 6	*****				
28.87	125 4	*****				
28.93	235 8	*****				
28.99	164 6	*****				
29.05	167 6	*****				
29.11	184 6	*****				
29.17	159 5	*****				
29.23	202 7	*****				
29.29	196 7	*****				
29.35	105 4	*****				
29.41	49 2	*****				
29.47	17 1	***				
29.53	3 0	*				
29.59	0 0					
29.65	0 0					
29.71	0 0					
29.77	0 0					

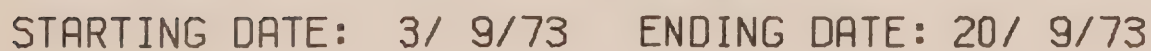
NO. OF SAMPLES OVER 29.80 = 0

NO. OF SAMPLES UNDER 27.40 = 0

TOTAL NO. OF OBSERVATIONS = 2908

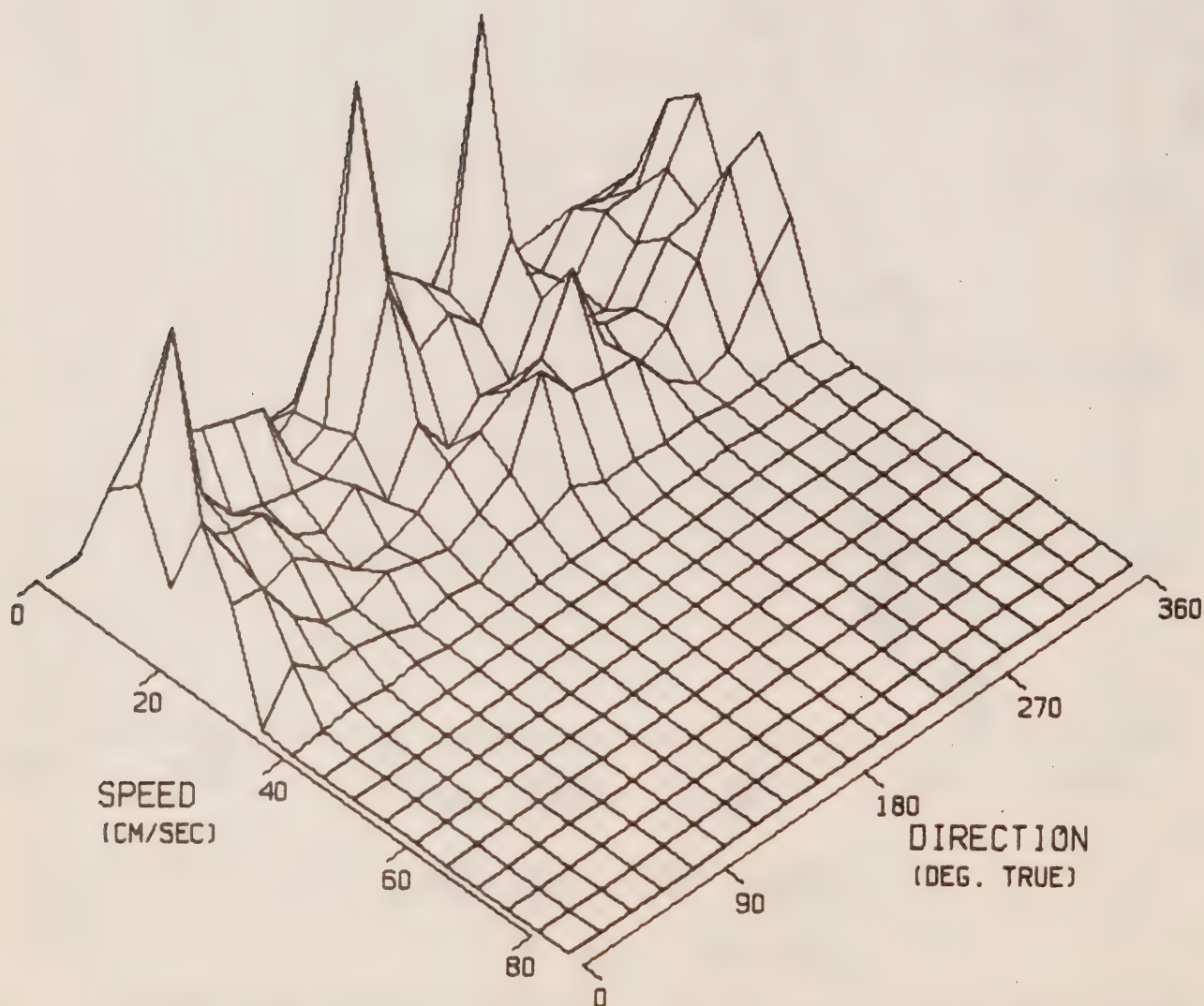
SAMPLE INTERVAL = 10 MINUTES





# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.  
STARTING DATE: 3/ 9/73  
NO. OF SAMPLES = 2426



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 3/ 9/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO	080 TO	160 TO	240 TO	320 TO	400 TO	480 TO	560 TO	640 TO	720 TO	800 TO	880 TO	
	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	015	071	033	050	006								175
15- 29	012	094	042	040	012								200
30- 44	005	049	032	018	009								113
45- 59	017	036	024	018	003								98
60- 74	020	032	030	012	006								100
75- 89	007	033	017	010	005								72
90-104	006	031	009	008	001								55
105-119	006	017	013	005									41
120-134	005	011	014	007	003								40
135-149	009	018	008	007									42
150-164	034	106	023	012	004								179
165-179	035	078	014	018	004								149
180-194	009	039	017	027	005								97
195-209	013	045	023	035	010								126
210-224	015	034	020	029	006								104
225-239	028	053	023	038	004								146
240-254	025	085	054	046	001								211
255-269	005	024	011	023	003								66
270-284	006	006	011	009	002								34
285-299	002	005	008	007	002								24
300-314	005	002	011	007	001								26
315-329	012	026	029	016	001								84
330-344	009	028	032	041	002								112
345-359	008	033	033	057	001								132
	308		531		91		0		0		0		2426
		956		540		0		0		0		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M. START DATE 03/09/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
0	0	0	.	.	.	.	.
18	10	0	**				
30	7	0	*				
42	24	1	*****				
54	80	3	*****				
66	121	5	*****				
78	127	5	*****				
90	179	7	*****				
102	159	7	*****				
114	145	6	*****				
126	141	6	*****				
138	130	5	*****				
150	104	4	*****				
162	90	4	*****				
174	92	4	*****				
186	82	3	*****				
198	87	4	*****				
210	76	3	*****				
222	87	4	*****				
234	85	4	*****				
246	64	3	*****				
258	92	4	*****				
270	105	4	*****				
282	76	3	*****				
294	71	3	*****				
306	61	3	*****				
318	53	2	*****				
330	34	1	*****				
342	18	1	***				
354	13	1	***				
366	5	0	■				
378	6	0	*				
390	2	0					
402	0	0					
414	0	0					
426	0	0					
438	0	0					
450	0	0					
462	0	0					
474	0	0					

NO. OF SAMPLES OVER 480 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2426  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5A DEPTH 20M. START DATE 03/09/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT.	40	80	120	160	200
5	123	5	*****				
15	126	5	*****				
25	134	6	*****				
35	75	3	*****				
45	69	3	*****				
55	65	3	*****				
65	74	3	*****				
75	45	2	*****				
85	50	2	*****				
95	39	2	*****				
105	35	1	*****				
115	22	1	*****				
125	29	1	*****				
135	24	1	*****				
145	32	1	*****				
155	104	4	*****				
165	141	6	*****				
175	87	4	*****				
185	55	2	*****				
195	85	4	*****				
205	83	3	*****				
215	65	3	*****				
225	69	3	*****				
235	120	5	*****				
245	160	7	*****				
255	77	3	*****				
265	28	1	*****				
275	23	1	*****				
285	21	1	*****				
295	14	1	****				
305	17	1	****				
315	35	1	*****				
325	67	3	*****				
335	70	3	*****				
345	84	3	*****				
355	79	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2426  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 03/09/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	60	120	180	240	300
8.43	0	0	.	.	.	.	.
8.49	0	0					
8.55	13	1	**				
8.61	24	1	****				
8.67	48	2	*****				
8.73	115	5	*****				
8.79	79	3	*****				
8.85	76	3	*****				
8.91	47	2	*****				
8.97	21	1	****				
9.03	55	2	*****				
9.09	39	2	*****				
9.15	154	6	*****				
9.21	223	9	*****				
9.27	142	6	*****				
9.33	271	11	*****				
9.39	145	6	*****				
9.45	112	5	*****				
9.51	145	6	*****				
9.57	88	4	*****				
9.63	106	4	*****				
9.69	71	3	*****				
9.75	71	3	*****				
9.81	101	4	*****				
9.87	57	2	*****				
9.93	76	3	*****				
9.99	51	2	*****				
10.05	41	2	*****				
10.11	28	1	*****				
10.17	10	0	**				
10.23	9	0	**				
10.29	7	0	*				
10.35	1	0					
10.41	0	0					
10.47	0	0					
10.53	0	0					
10.59	0	0					
10.65	0	0					
10.71	0	0					
10.77	0	0					

NO. OF SAMPLES OVER 10.80 = 0

NO. OF SAMPLES UNDER 8.40 = 0

TOTAL NO. OF OBSERVATIONS = 2426

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M, START DATE 03/09/73

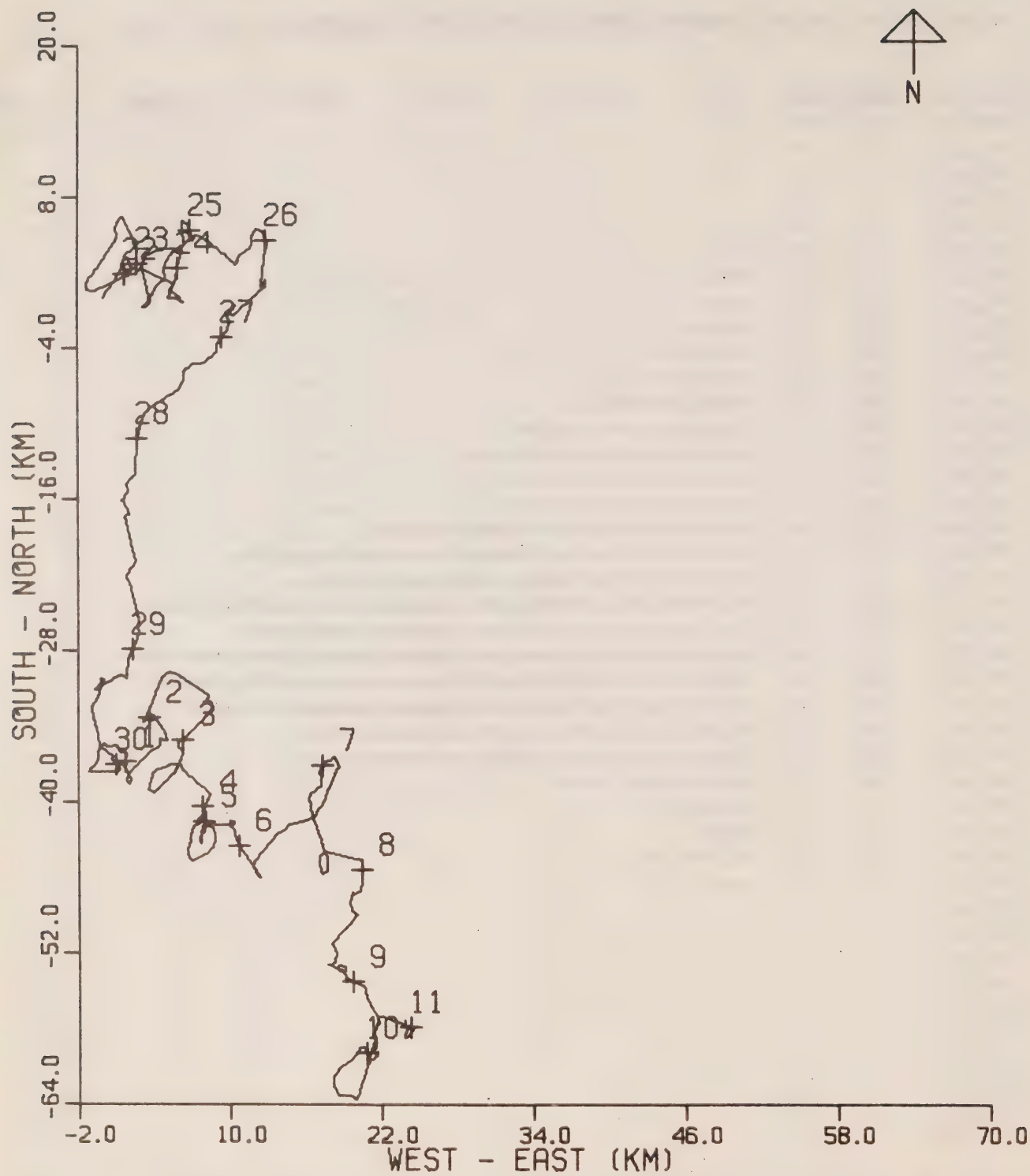
MEDIAN (PPT)	FREQUENCY NO. PCT .	50 .	100 .	150 .	200 .	250 .
28.42	0 0					
28.46	0 0					
28.50	2 0					
28.54	1 0					
28.58	7 0	*				
28.62	13 1	***				
28.66	21 1	****				
28.70	23 1	*****				
28.74	34 1	*****				
28.78	65 3	*****				
28.82	60 2	*****				
28.86	80 3	*****				
28.90	93 4	*****				
28.94	67 3	*****				
28.98	87 4	*****				
29.02	123 5	*****				
29.06	177 7	*****				
29.10	144 6	*****				
29.14	203 8	*****				
29.18	170 7	*****				
29.22	212 9	*****				
29.26	200 8	*****				
29.30	191 8	*****				
29.34	151 6	*****				
29.38	130 5	*****				
29.42	64 3	*****				
29.46	36 1	*****				
29.50	18 1	****				
29.54	38 2	*****				
29.58	16 1	***				
29.62	0 0					
29.66	0 0					
29.70	0 0					
29.74	0 0					
29.78	0 0					
29.82	0 0					
29.86	0 0					
29.90	0 0					
29.94	0 0					
29.98	0 0					

NO. OF SAMPLES OVER 30.00 = 0

NO. OF SAMPLES UNDER 28.40 = 0

TOTAL NO. OF OBSERVATIONS = 2426

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

STARTING DATE: 21/ 9/73    ENDING DATE: 11/10/73

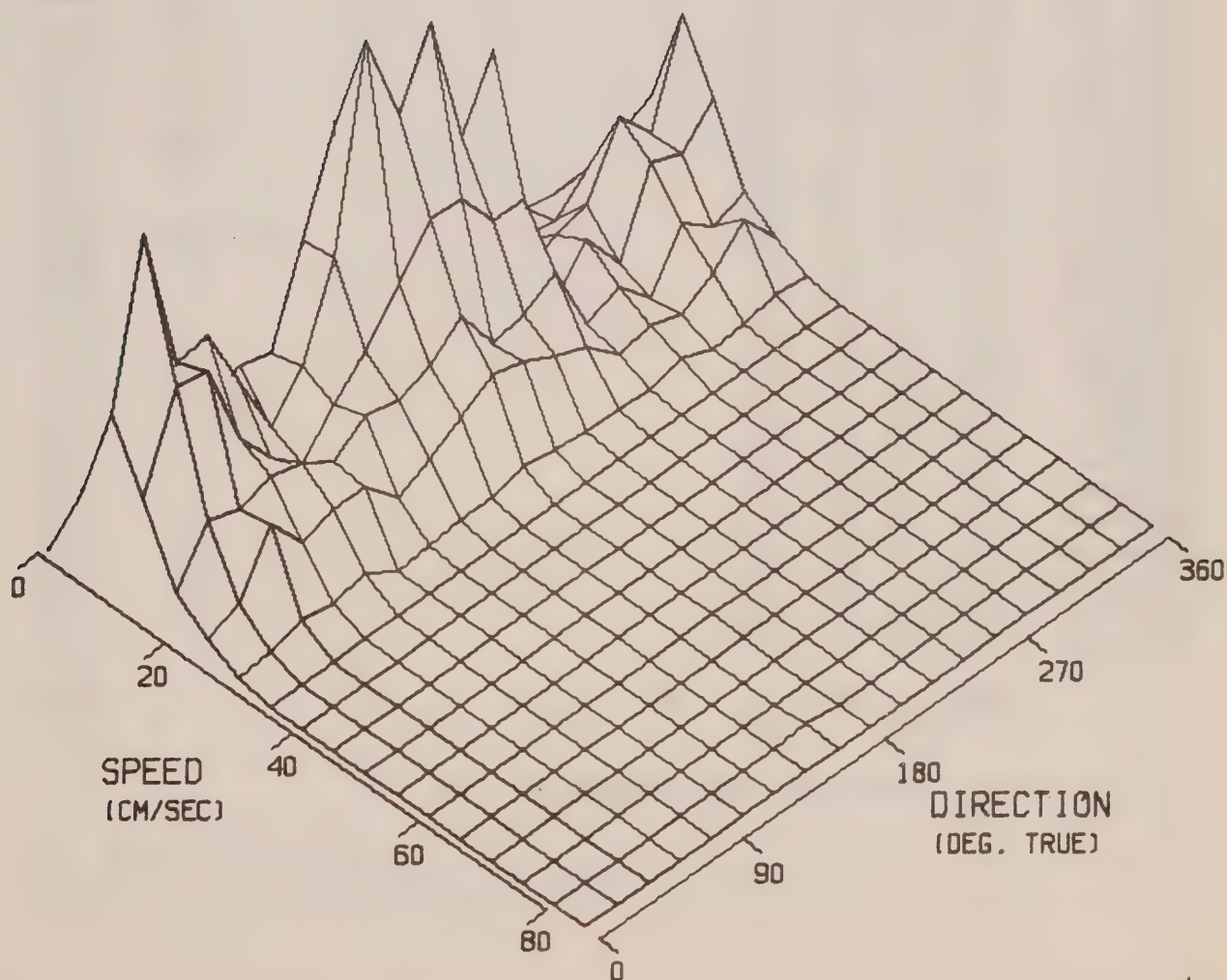


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 21/ 9/73

NO. OF SAMPLES = 2875



STN. NO. H3-5N

DEPTH 20 M.

STARTING DATE: 21/ 9/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	027	066	017	006									116
15- 29	029	118	033	009									189
30- 44	028	085	035	019								001	168
45- 59	014	064	029	022									129
60- 74	025	056	025	008									114
75- 89	021	033	024	019									97
90-104	025	017	020	013									75
105-119	015	024	026	007								001	73
120-134	028	033	025	004									90
135-149	052	062	029	011									154
150-164	068	099	031	010							001	001	210
165-179	048	117	038	017									220
180-194	020	084	043	015			001						163
195-209	036	116	031	013									196
210-224	033	057	027	013									130
225-239	043	095	042	012									192
240-254	018	052	027	002									99
255-269	002	007	004	002									15
270-284	005	022	020	006									53
285-299	005	007	005	003									20
300-314	008	032	009	003									52
315-329	012	041	020	007									80
330-344	012	038	012	015									77
345-359	015	056	013	009									93
	589		585		0	0	0	0	0	1			2805
	1381		245		0		1		0		3		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 70

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 21/09/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	40	80	120	160	200
4	0	0	.	.	.	.	.
12	2	0	*				
20	11	0	***				
28	27	1	*****				
36	42	1	*****				
44	63	2	*****				
52	102	4	*****				
60	122	4	*****				
68	130	5	*****				
76	91	3	*****				
84	186	6	*****				
92	166	6	*****				
100	147	5	*****				
108	169	6	*****				
116	134	5	*****				
124	133	5	*****				
132	130	5	*****				
140	126	4	*****				
148	103	4	*****				
156	87	3	*****				
164	59	2	*****				
172	67	2	*****				
180	64	2	*****				
188	66	2	*****				
196	69	2	*****				
204	77	3	*****				
212	51	2	*****				
220	61	2	*****				
228	50	2	*****				
236	41	1	*****				
244	20	1	*****				
252	43	1	*****				
260	59	2	*****				
268	47	2	*****				
276	22	1	*****				
284	16	1	***				
292	11	0	***				
300	5	0	*				
308	1	0					
316	1	0					

NO. OF SAMPLES OVER 320 = 77  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M. START DATE 21/09/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	40	80	120	160	200
5	75	3	*****				
15	117	4	*****				
25	132	5	*****				
35	112	4	*****				
45	96	3	*****				
55	93	3	*****				
65	69	2	*****				
75	74	3	*****				
85	63	2	*****				
95	57	2	*****				
105	46	2	*****				
115	51	2	*****				
125	71	2	*****				
135	65	2	*****				
145	123	4	*****				
155	127	4	*****				
165	181	6	*****				
175	133	5	*****				
185	116	4	*****				
195	120	4	*****				
205	126	4	*****				
215	92	3	*****				
225	106	4	*****				
235	145	5	*****				
245	79	3	*****				
255	22	1	*****				
265	8	0	**				
275	42	1	*****				
285	24	1	*****				
295	9	0	**				
305	29	1	*****				
315	67	2	*****				
325	44	2	*****				
335	49	2	*****				
345	53	2	*****				
355	62	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M. START DATE 21/09/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	60	120	180	240	300
8.52	0	0	.	.	.	.	.
8.56	8	0	*				
8.60	66	2	*****				
8.64	37	1	*****				
8.68	110	4	*****				
8.72	65	2	*****				
8.76	118	4	*****				
8.80	95	3	*****				
8.84	225	8	*****				
8.88	177	6	*****				
8.92	134	5	*****				
8.96	61	2	*****				
9.00	183	6	*****				
9.04	218	8	*****				
9.08	178	6	*****				
9.12	83	3	*****				
9.16	181	6	*****				
9.20	196	7	*****				
9.24	150	5	*****				
9.28	62	2	*****				
9.32	101	4	*****				
9.36	96	3	*****				
9.40	94	3	*****				
9.44	36	1	*****				
9.48	56	2	*****				
9.52	37	1	*****				
9.56	30	1	*****				
9.60	8	0	*				
9.64	11	0	**				
9.68	10	0	**				
9.72	6	0	*				
9.76	4	0	*				
9.80	13	0	**				
9.84	3	0	*				
9.88	0	0					
9.92	2	0					
9.96	1	0					
10.00	5	0	*				
10.04	3	0	*				
10.08	8	0	*				

NO. OF SAMPLES OVER 10.10 = 7

NO. OF SAMPLES UNDER 8.50 = 0

TOTAL NO. OF OBSERVATIONS = 2878

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 21/09/73

MEDIAN (PPT)	FREQUENCY NO. PCT .	70	140	210	280	350
28.42	0 0	.	.	.	.	.
28.46	0 0					
28.50	0 0					
28.54	0 0					
28.58	0 0					
28.62	7 0 *					
28.66	9 0 *					
28.70	7 0 *					
28.74	3 0					
28.78	3 0					
28.82	12 0 **					
28.86	4 0 *					
28.90	18 1 ***					
28.94	31 1 ****					
28.98	38 1 *****					
29.02	34 1 *****					
29.06	70 2 *****					
29.10	99 3 *****					
29.14	132 5 *****					
29.18	197 7 *****					
29.22	222 8 *****					
29.26	208 7 *****					
29.30	204 7 *****					
29.34	313 11 *****					
29.38	160 6 *****					
29.42	173 6 *****					
29.46	245 9 *****					
29.50	130 5 *****					
29.54	130 5 *****					
29.58	166 6 *****					
29.62	142 5 *****					
29.66	90 3 *****					
29.70	17 1 **					
29.74	13 0 **					
29.78	0 0					
29.82	0 0					
29.86	0 0					
29.90	0 0					
29.94	0 0					
29.98	0 0					

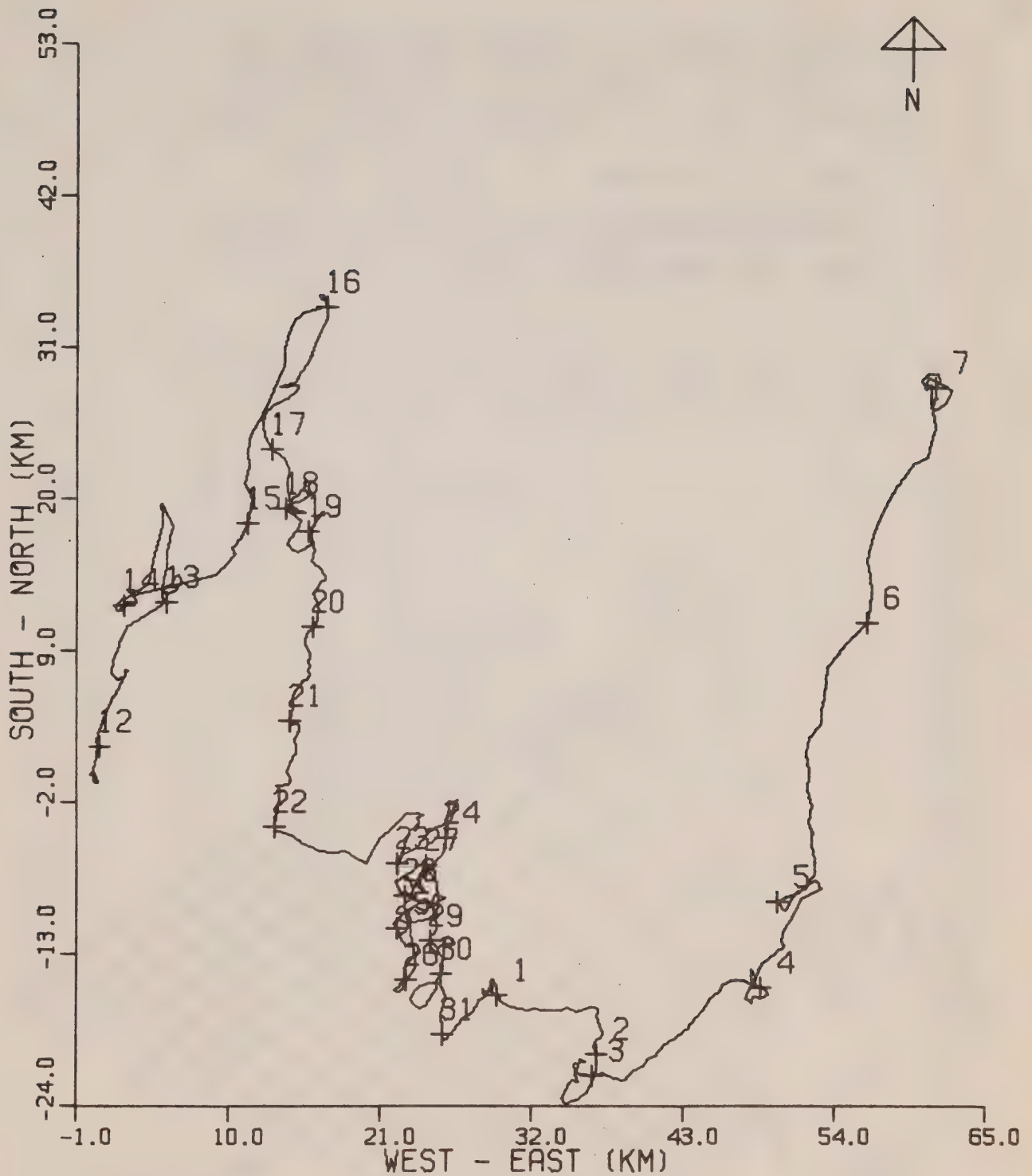
NO. OF SAMPLES OVER 30.00 = 0

NO. OF SAMPLES UNDER 28.40 = 1

TOTAL NO. OF OBSERVATIONS = 2878

SAMPLE INTERVAL = 10 MINUTES

RELEASED.



STN. NO. HS-5N

DEPTH 20 M.

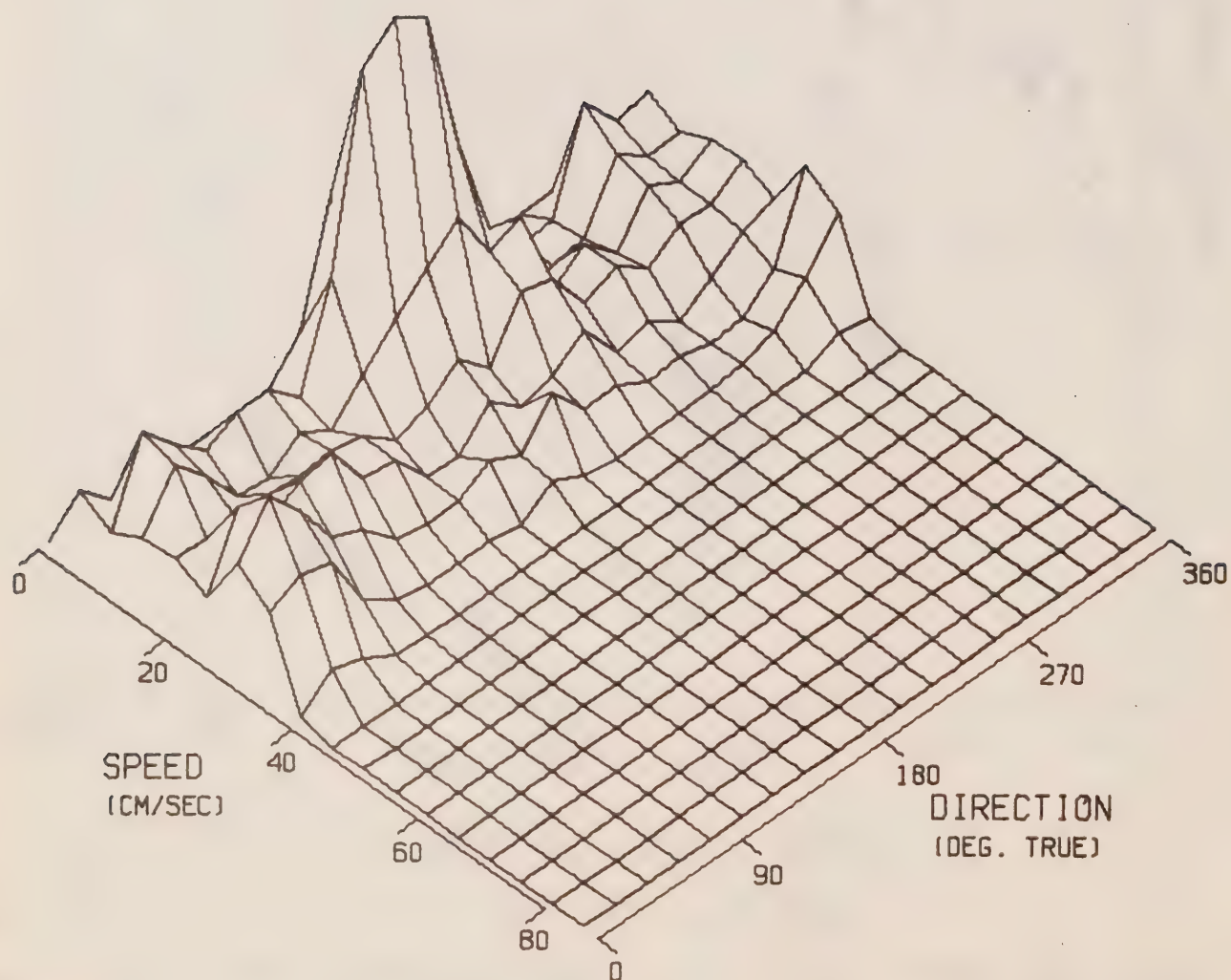
STARTING DATE: 11/10/73    ENDING DATE: 7/11/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 11/10/73

NO. OF SAMPLES = 3912





STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 11/10/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO 079	080 TO 159	160 TO 239	240 TO 319	320 TO 399	400 TO 479	480 TO 559	560 TO 639	640 TO 719	720 TO 799	800 TO 879	880 TO 959
0-14	028	045	034	064	043		001					215
15-29	018	085	039	088	046	006						282
30-44	017	058	044	054	045	004						222
45-59	022	027	035	058	014							156
60-74	019	038	040	049	019							165
75-89	017	038	041	043	005							144
90-104	017	035	033	038	003							126
105-119	017	036	049	021	001							124
120-134	018	035	028	015	005							101
135-149	031	077	023	014	003							148
150-164	067	097	025	019	002							210
165-179	097	153	037	018	007							312
180-194	090	166	038	032	007							333
195-209	036	130	033	024	004							227
210-224	037	078	045	010								170
225-239	043	093	056	027	001							220
240-254	039	034	040	017					002			132
255-269	005	008	013	010	001							37
270-284	005	022	035	006	003							71
285-299	004	007	021	006								38
300-314	028	028	017	006	004							83
315-329	027	039	030	008	007							111
330-344	023	026	024	019	016	001						109
345-359	033	028	037	037	034							169
	738		817		270		1		0		0	3905
	1383		683		11		0		2		0	

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 7

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M, START DATE 11/10/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	70	140	210	280	350
			.	.	.	.	.
6	0	0					
18	9	0	*				
30	29	1	****				
42	97	2	*****				
54	208	5	*****				
66	281	7	*****				
78	222	6	*****				
90	260	7	*****				
102	263	7	*****				
114	206	5	*****				
126	176	4	*****				
138	168	4	*****				
150	156	4	*****				
162	134	3	*****				
174	144	4	*****				
186	117	3	*****				
198	128	3	*****				
210	121	3	*****				
222	146	4	*****				
234	108	3	*****				
246	74	2	*****				
258	104	3	*****				
270	111	3	*****				
282	118	3	*****				
294	95	2	*****				
306	89	2	*****				
318	89	2	*****				
330	83	2	*****				
342	66	2	*****				
354	41	1	*****				
366	20	1	***				
378	18	0	***				
390	10	0	*				
402	2	0					
414	6	0	*				
426	3	0					
438	0	0					
450	0	0					
462	0	0					
474	0	0					

NO. OF SAMPLES OVER 480 = 10  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3912  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M, START DATE 11/10/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	152	4	*****				
15	169	4	*****				
25	189	5	*****				
35	165	4	*****				
45	118	3	*****				
55	97	2	*****				
65	114	3	*****				
75	103	3	*****				
85	97	2	*****				
95	89	2	*****				
105	79	2	*****				
115	77	2	*****				
125	63	2	*****				
135	84	2	*****				
145	101	3	*****				
155	143	4	*****				
165	201	5	*****				
175	183	5	*****				
185	211	5	*****				
195	212	5	*****				
205	143	4	*****				
215	114	3	*****				
225	146	4	*****				
235	123	3	*****				
245	106	3	*****				
255	29	1	*****				
265	29	1	*****				
275	53	1	*****				
285	32	1	*****				
295	18	0	****				
305	33	1	*****				
315	109	3	*****				
325	58	1	*****				
335	69	2	*****				
345	103	3	*****				
355	100	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3912  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M, START DATE 11/10/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	90	180	270	360	450
8.33	11	0	*				
8.39	136	3	*****				
8.45	99	3	*****				
8.51	116	3	*****				
8.57	209	5	*****				
8.63	197	5	*****				
8.69	331	8	*****				
8.75	430	11	*****				
8.81	237	6	*****				
8.87	322	8	*****				
8.93	174	4	*****				
8.99	244	6	*****				
9.05	194	5	*****				
9.11	116	3	*****				
9.17	205	5	*****				
9.23	126	3	*****				
9.29	69	2	*****				
9.35	99	3	*****				
9.41	60	2	*****				
9.47	67	2	*****				
9.53	77	2	*****				
9.59	50	1	*****				
9.65	63	2	*****				
9.71	70	2	*****				
9.77	72	2	*****				
9.83	47	1	*****				
9.89	31	1	***				
9.95	20	1	**				
10.01	10	0	*				
10.07	9	0	*				
10.13	13	0	*				
10.19	3	0					
10.25	3	0					
10.31	0	0					
10.37	2	0					
10.43	0	0					
10.49	0	0					
10.55	0	0					
10.61	0	0					
10.67	0	0					

NO. OF SAMPLES OVER 10.70 = 0  
 NO. OF SAMPLES UNDER 8.30 = 0  
 TOTAL NO. OF OBSERVATIONS = 3912  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M. START DATE 11/10/73

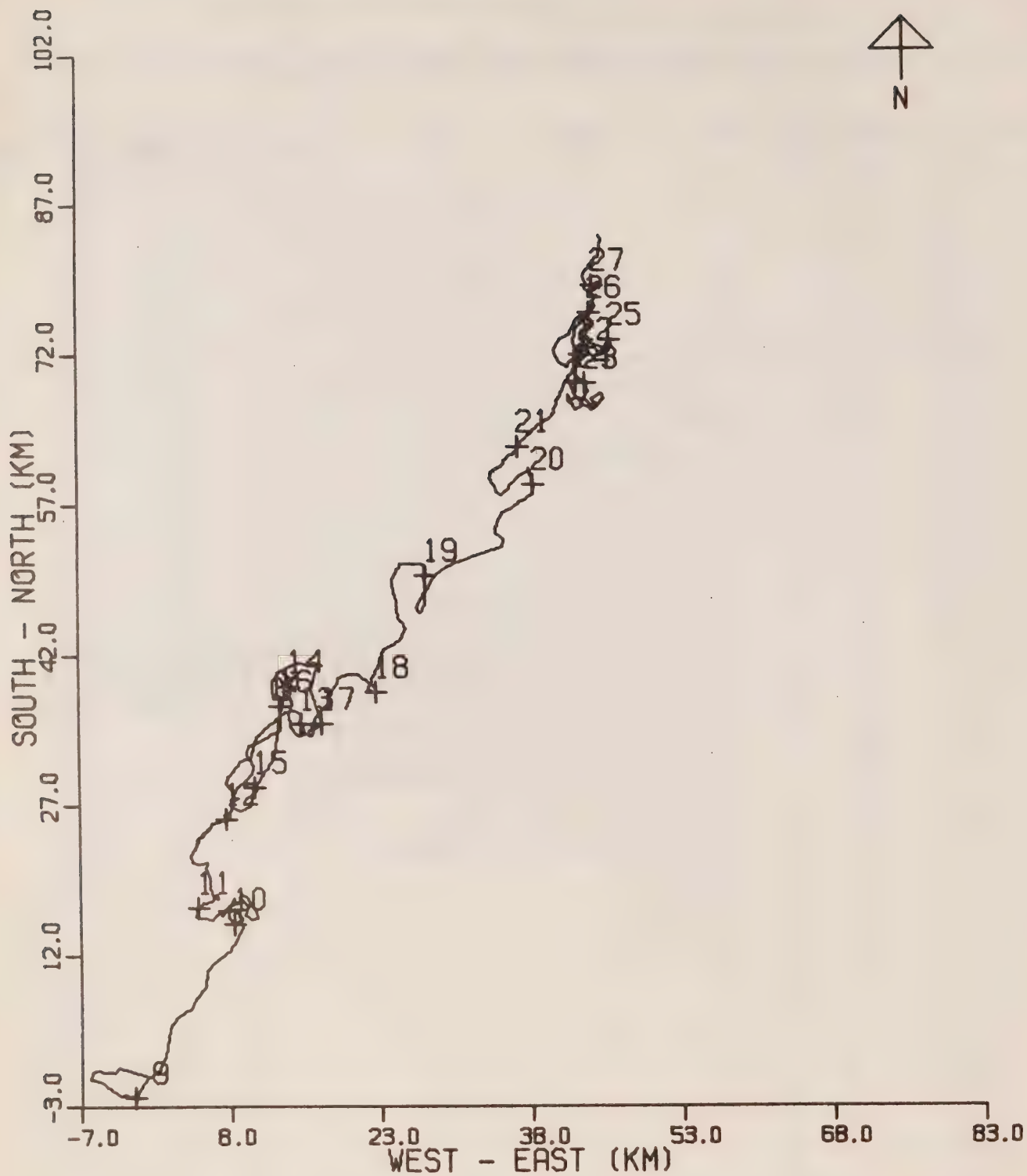
MEDIAN (PPT)	FREQUENCY NO.	PCT	80	160	240	320	400
28.33	5	0	*				
28.39	11	0	*				
28.45	11	0	*				
28.51	13	0	**				
28.57	16	0	**				
28.63	27	1	***				
28.69	31	1	****				
28.75	38	1	*****				
28.81	55	1	*****				
28.87	48	1	*****				
28.93	113	3	*****				
28.99	60	2	*****				
29.05	74	2	*****				
29.11	88	2	*****				
29.17	96	2	*****				
29.23	121	3	*****				
29.29	187	5	*****				
29.35	197	5	*****				
29.41	371	9	*****				
29.47	389	10	*****				
29.53	387	10	*****				
29.59	279	7	*****				
29.65	224	6	*****				
29.71	223	6	*****				
29.77	156	4	*****				
29.83	181	5	*****				
29.89	193	5	*****				
29.95	81	2	*****				
30.01	83	2	*****				
30.07	67	2	*****				
30.13	64	2	*****				
30.19	18	0	**				
30.25	0	0					
30.31	0	0					
30.37	0	0					
30.43	0	0					
30.49	0	0					
30.55	0	0					
30.61	0	0					
30.67	0	0					

NO. OF SAMPLES OVER 30.70 = 0

NO. OF SAMPLES UNDER 28.30 = 5

TOTAL NO. OF OBSERVATIONS = 3912

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

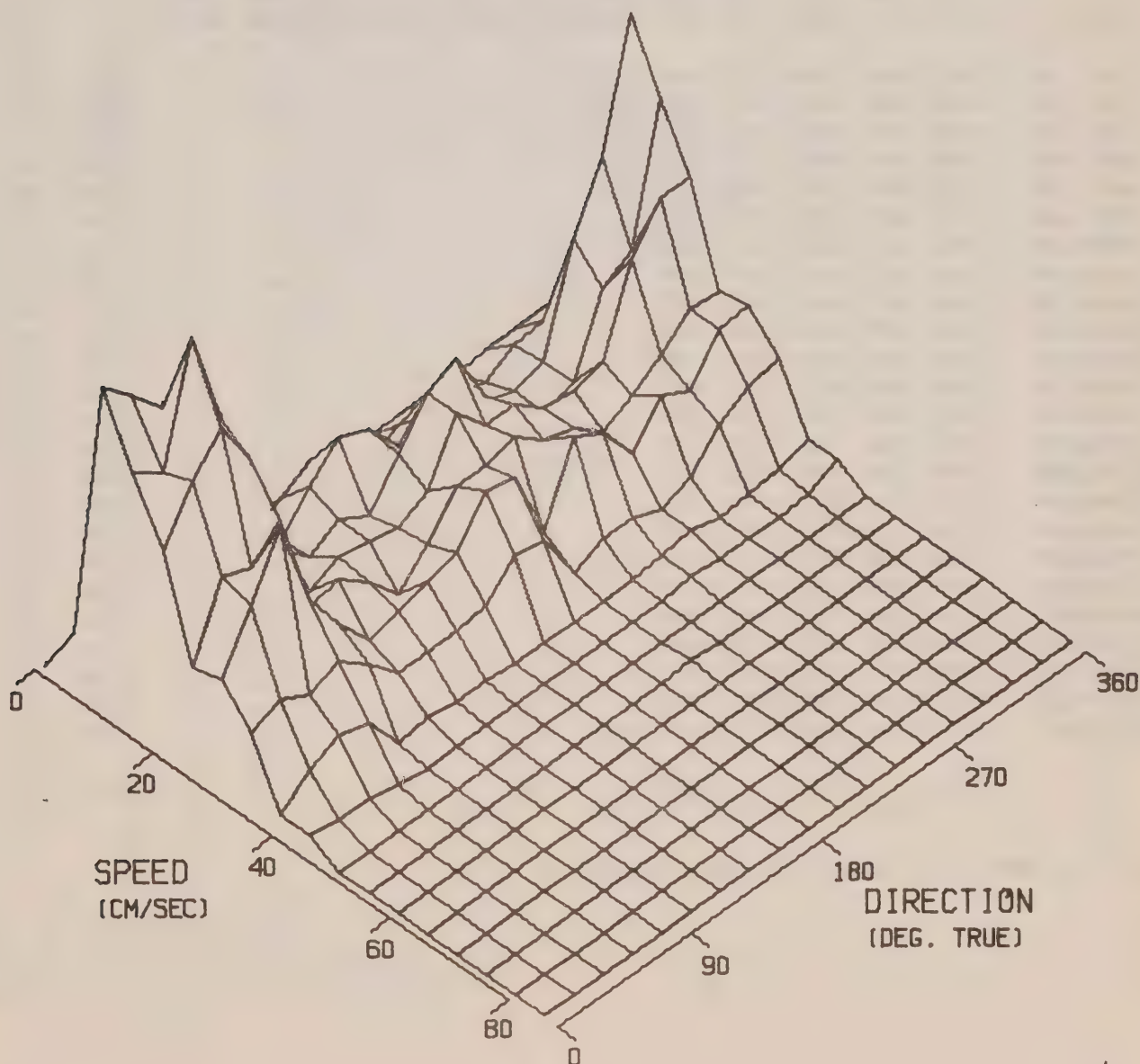
STARTING DATE: 8/11/73    ENDING DATE: 27/11/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 8/11/73

NO. OF SAMPLES = 2809



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 8/11/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	012	086	059	032	019	003							211
15- 29	012	082	074	061	019	007							255
30- 44	008	093	080	071	019	009							280
45- 59	009	062	079	048	025	010							233
60- 74	012	043	048	045	010	002							160
75- 89	005	024	025	022	014								90
90-104	003	015	024	024	006								72
105-119	006	013	017	017	009								62
120-134	006	007	020	012	012								57
135-149	009	025	016	014	007								71
150-164	012	020	020	011	009								72
165-179	016	023	011	027	006								83
180-194	002	022	028	038	024								114
195-209	001	026	036	031	010								104
210-224	004	026	039	022	004	001							96
225-239	013	022	017	021	004								77
240-254	006	015	030	028	005								84
255-269	006	008	016	021	006	001							58
270-284	003	008	014	017	003								45
285-299	003	005	017	022	004								51
300-314	008	016	030	018	009								81
315-329	010	038	033	028	010								119
330-344	011	042	040	030	012								135
345-359	017	066	056	028	017	006							190
	194	829	263	1	0	0	0	0	0	0	0	2800	
	787	688	38	0	0	0	0	0	0	0	0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 9



## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M START DATE 08/11/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
6	0	0	.	.	.	.	.
18	4	0	*				
30	8	0	**				
42	15	1	***				
54	52	2	*****				
66	78	3	*****				
78	63	2	*****				
90	118	4	*****				
102	127	5	*****				
114	145	5	*****				
126	108	4	*****				
138	102	4	*****				
150	117	4	*****				
162	129	5	*****				
174	153	5	*****				
186	134	5	*****				
198	143	5	*****				
210	128	5	*****				
222	111	4	*****				
234	105	4	*****				
246	70	2	*****				
258	104	4	*****				
270	109	4	*****				
282	101	4	*****				
294	104	4	*****				
306	108	4	*****				
318	93	3	*****				
330	70	2	*****				
342	68	2	*****				
354	47	2	*****				
366	23	1	*****				
378	15	1	***				
390	9	0	**				
402	5	0	*				
414	12	0	**				
426	12	0	**				
438	3	0	*				
450	4	0	*				
462	2	0					
474	0	0					

NO. OF SAMPLES OVER 480 = 10

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 2809

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M START DATE 08/11/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	170	6	*****				
15	129	4	*****				
25	189	7	*****				
35	180	6	*****				
45	174	6	*****				
55	153	5	*****				
65	117	4	*****				
75	79	3	*****				
85	53	2	*****				
95	46	2	*****				
105	43	1	*****				
115	40	1	*****				
125	47	2	*****				
135	49	2	*****				
145	48	2	*****				
155	49	2	*****				
165	60	2	*****				
175	57	2	*****				
185	81	3	*****				
195	71	2	*****				
205	73	3	*****				
215	74	3	*****				
225	48	2	*****				
235	56	2	*****				
245	64	2	*****				
255	44	2	*****				
265	45	2	*****				
275	33	1	*****				
285	32	1	*****				
295	39	1	*****				
305	53	2	*****				
315	76	3	*****				
325	80	3	*****				
335	94	3	*****				
345	115	4	*****				
355	110	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2871  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M START DATE 08/11/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT	60	120	180	240	300
7.92	0	0	.	.	.	.	.
7.96	0	0					
8.00	0	0					
8.04	20	1	***				
8.08	24	1	****				
8.12	95	3	*****				
8.16	48	2	*****				
8.20	25	1	****				
8.24	8	0	*				
8.28	21	1	****				
8.32	48	2	*****				
8.36	134	5	*****				
8.40	76	3	*****				
8.44	183	6	*****				
8.48	205	7	*****				
8.52	97	3	*****				
8.56	47	2	*****				
8.60	162	6	*****				
8.64	241	8	*****				
8.68	266	9	*****				
8.72	116	4	*****				
8.76	217	8	*****				
8.80	168	6	*****				
8.84	94	3	*****				
8.88	40	1	*****				
8.92	106	4	*****				
8.96	129	4	*****				
9.00	67	2	*****				
9.04	94	3	*****				
9.08	94	3	*****				
9.12	46	2	*****				
9.16	0	0					
9.20	0	0					
9.24	0	0					
9.28	0	0					
9.32	0	0					
9.36	0	0					
9.40	0	0					
9.44	0	0					
9.48	0	0					

NO. OF SAMPLES OVER 9.50 = 0

NO. OF SAMPLES UNDER 7.90 = 0

TOTAL NO. OF OBSERVATIONS = 2871

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M START DATE 08/11/73

MEDIAN (PPT)	FREQUENCY NO.	PCT	50	100	150	200	250
26.45	3	0	*				
26.55	8	0	**				
26.65	13	0	***				
26.75	29	1	*****				
26.85	20	1	****				
26.95	44	2	*****				
27.05	22	1	****				
27.15	26	1	*****				
27.25	32	1	*****				
27.35	9	0	**				
27.45	12	0	**				
27.55	13	0	***				
27.65	11	0	**				
27.75	5	0	*				
27.85	5	0	*				
27.95	11	0	**				
28.05	31	1	*****				
28.15	38	1	*****				
28.25	29	1	*****				
28.35	27	1	*****				
28.45	18	1	****				
28.55	62	2	*****				
28.65	93	3	*****				
28.75	116	4	*****				
28.85	142	5	*****				
28.95	160	6	*****				
29.05	64	2	*****				
29.15	66	2	*****				
29.25	148	5	*****				
29.35	147	5	*****				
29.45	217	8	*****				
29.55	211	7	*****				
29.65	202	7	*****				
29.75	127	4	*****				
29.85	118	4	*****				
29.95	183	6	*****				
30.05	200	7	*****				
30.15	162	6	*****				
30.25	47	2	*****				
30.35	0	0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 26.40 = 0

TOTAL NO. OF OBSERVATIONS = 2871

SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M START DATE 28/11/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	91	3	*****				
15	126	4	*****				
25	163	5	*****				
35	135	5	*****				
45	113	4	*****				
55	96	3	*****				
65	67	2	*****				
75	72	2	*****				
85	64	2	*****				
95	68	2	*****				
105	52	2	*****				
115	46	2	*****				
125	50	2	*****				
135	61	2	*****				
145	76	3	*****				
155	70	2	*****				
165	124	4	*****				
175	175	6	*****				
185	208	7	*****				
195	194	6	*****				
205	141	5	*****				
215	127	4	*****				
225	104	3	*****				
235	82	3	*****				
245	50	2	*****				
255	41	1	*****				
265	35	1	*****				
275	30	1	*****				
285	35	1	*****				
295	25	1	*****				
305	28	1	*****				
315	46	2	*****				
325	38	1	*****				
335	37	1	*****				
345	55	2	*****				
355	75	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M START DATE 28/11/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	120 .	240 .	360 .	480 .	600 .
7.42	2	0					
7.46	5	0					
7.50	32	1	***				
7.54	37	1	***				
7.58	15	1	*				
7.62	12	0	*				
7.66	17	1	*				
7.70	10	0	*				
7.74	5	0					
7.78	22	1	**				
7.82	25	1	**				
7.86	70	2	*****				
7.90	33	1	***				
7.94	38	1	***				
7.98	31	1	***				
8.02	24	1	**				
8.06	9	0	*				
8.10	31	1	***				
8.14	72	2	*****				
8.18	81	3	*****				
8.22	74	2	*****				
8.26	83	3	*****				
8.30	71	2	*****				
8.34	144	5	*****				
8.38	62	2	*****				
8.42	122	4	*****				
8.46	102	3	*****				
8.50	103	3	*****				
8.54	100	3	*****				
8.58	190	6	*****				
8.62	474	16	*****				
8.66	433	14	*****				
8.70	131	4	*****				
8.74	202	7	*****				
8.78	40	1	***				
8.82	65	2	*****				
8.86	31	1	***				
8.90	2	0					
8.94	0	0					
8.98	0	0					

NO. OF SAMPLES OVER 9.00 = 0  
 NO. OF SAMPLES UNDER 7.40 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M START DATE 28/11/73

MEDIAN (PPT)	FREQUENCY NO. PCT	120	240	360	480	600
26.45	2 0	.	.	.	.	.
26.55	7 0					
26.65	25 1					
26.75	33 1					
26.85	22 1					
26.95	11 0					
27.05	12 0					
27.15	5 0					
27.25	3 0					
27.35	4 0					
27.45	16 1					
27.55	9 0					
27.65	32 1					
27.75	46 2					
27.85	38 1					
27.95	27 1					
28.05	18 1					
28.15	34 1					
28.25	30 1					
28.35	21 1					
28.45	48 2					
28.55	68 2					
28.65	83 3					
28.75	83 3					
28.85	83 3					
28.95	79 3					
29.05	59 2					
29.15	78 3					
29.25	72 2					
29.35	161 5					
29.45	121 4					
29.55	144 5					
29.65	201 7					
29.75	324 11					
29.85	538 18					
29.95	379 13					
30.05	83 3					
30.15	0 0					
30.25	0 0					
30.35	0 0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 26.40 = 1

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M START DATE 19/12/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	98	5	*****				
15	118	5	*****				
25	164	8	*****				
35	174	8	*****				
45	114	5	*****				
55	97	4	*****				
65	79	4	*****				
75	60	3	*****				
85	54	3	*****				
95	31	1	*****				
105	36	2	*****				
115	31	1	*****				
125	33	2	*****				
135	39	2	*****				
145	49	2	*****				
155	52	2	*****				
165	45	2	*****				
175	56	3	*****				
185	69	3	*****				
195	46	2	*****				
205	59	3	*****				
215	72	3	*****				
225	57	3	*****				
235	51	2	*****				
245	35	2	*****				
255	33	2	*****				
265	22	1	****				
275	26	1	*****				
285	30	1	*****				
295	32	1	*****				
305	27	1	*****				
315	55	3	*****				
325	50	2	*****				
335	50	2	*****				
345	49	2	*****				
355	64	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 2157

SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M START DATE 19/12/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	120	240	360	480	600
7.62	0	0	.	.	.	.	.
7.66	0	0					
7.70	0	0					
7.74	1	0					
7.78	1	0					
7.82	2	0					
7.86	5	0					
7.90	1	0					
7.94	21	1	**				
7.98	55	3	*****				
8.02	79	4	*****				
8.06	59	3	*****				
8.10	132	6	*****				
8.14	129	6	*****				
8.18	195	9	*****				
8.22	304	14	*****				
8.26	476	22	*****				
8.30	100	5	*****				
8.34	90	4	*****				
8.38	32	1	***				
8.42	98	5	*****				
8.46	135	6	*****				
8.50	115	5	*****				
8.54	20	1	**				
8.58	22	1	**				
8.62	28	1	**				
8.66	20	1	**				
8.70	36	2	***				
8.74	1	0					
8.78	0	0					
8.82	0	0					
8.86	0	0					
8.90	0	0					
8.94	0	0					
8.98	0	0					
9.02	0	0					
9.06	0	0					
9.10	0	0					
9.14	0	0					
9.18	0	0					

NO. OF SAMPLES OVER 9.20 = 0  
 NO. OF SAMPLES UNDER 7.60 = 0  
 TOTAL NO. OF OBSERVATIONS = 2157  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5N DEPTH 20M START DATE 19/12/73

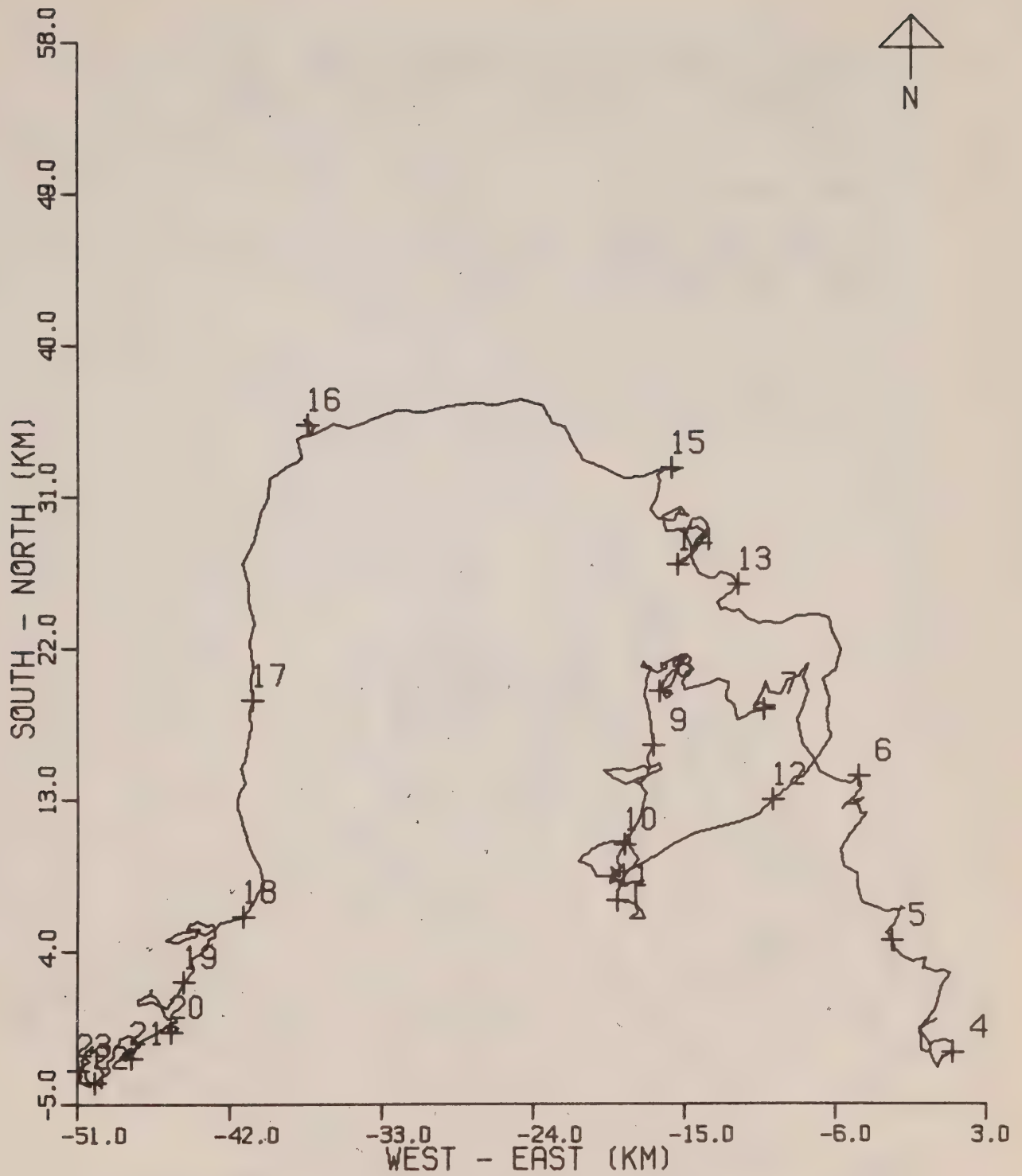
MEDIAN (PPT)	FREQUENCY NO.	PCT	60	120	180	240	300
28.62	2	0	.	.	.	.	.
28.66	2	0					
28.70	1	0					
28.74	7	0	*				
28.78	9	0	**				
28.82	8	0	*				
28.86	37	2	*****				
28.90	45	2	*****				
28.94	42	2	*****				
28.98	46	2	*****				
29.02	71	3	*****				
29.06	39	2	*****				
29.10	52	2	*****				
29.14	72	3	*****				
29.18	28	1	*****				
29.22	44	2	*****				
29.26	41	2	*****				
29.30	53	2	*****				
29.34	69	3	*****				
29.38	75	3	*****				
29.42	114	5	*****				
29.46	125	6	*****				
29.50	152	7	*****				
29.54	177	8	*****				
29.58	80	4	*****				
29.62	257	12	*****				
29.66	126	6	*****				
29.70	35	2	*****				
29.74	49	2	*****				
29.78	12	1	**				
29.82	58	3	*****				
29.86	61	3	*****				
29.90	80	4	*****				
29.94	42	2	*****				
29.98	28	1	*****				
30.02	18	1	***				
30.06	0	0					
30.10	0	0					
30.14	0	0					
30.18	0	0					

NO. OF SAMPLES OVER 30.20 = 0

NO. OF SAMPLES UNDER 28.60 = 0

TOTAL NO. OF OBSERVATIONS = 2157

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

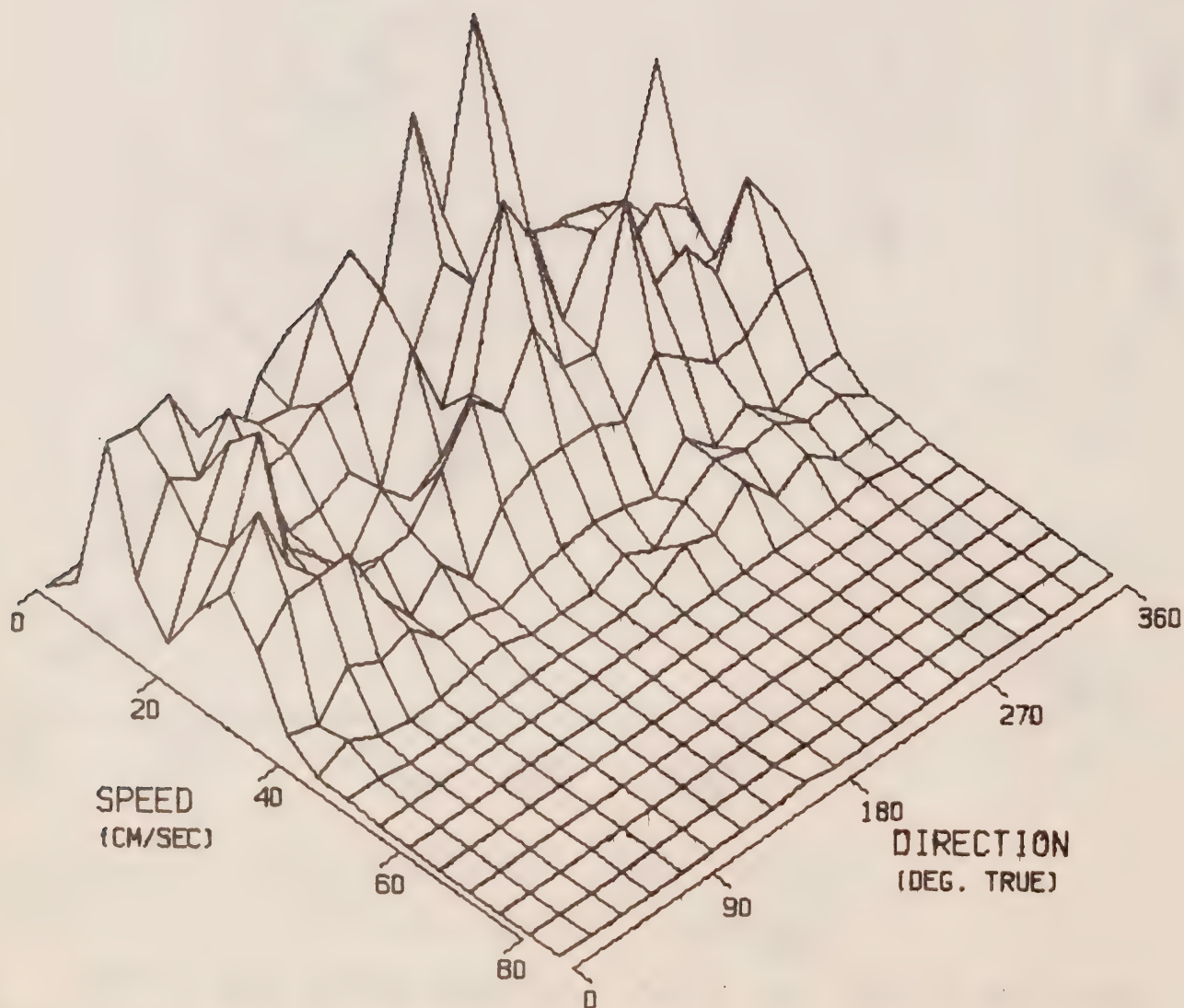
STARTING DATE: 3/ 1/74    ENDING DATE: 23/ 1/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 3/ 1/74

NO. OF SAMPLES = 2858





STN. NO. HS-5N

DEPTH 20 M.

STARTING DATE: 3/ 1/74

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	009	034	015	027	015	005	001						106
15- 29	008	042	028	043	020	002	001						144
30- 44	003	042	052	041	023	003							164
45- 59	013	026	026	023	026								114
60- 74	013	039	031	014	020	001							118
75- 89	003	023	014	011	014	001							66
90-104	004	022	011	008	005								50
105-119	010	027	022	010	008	001							78
120-134	014	026	013	021	006	003							83
135-149	020	038	013	016	002								89
150-164	017	062	036	025	013					001			154
165-179	010	037	010	029	011	001							98
180-194	006	029	022	032	015	002							106
195-209	021	057	054	057	019	003	001						212
210-224	024	034	042	044	013	003	004						164
225-239	012	046	045	019	014	001	003						140
240-254	036	068	032	047	013	006	002						204
255-269	020	031	040	048	024	015	003						181
270-284	008	023	028	037	013	007	002						118
285-299	011	025	026	028	015	010	004						119
300-314	004	011	018	032	012	009	003						89
315-329	009	018	020	018	007	003	001						76
330-344	005	023	027	034	022	005	002						118
345-359	003	011	014	022	015	002							67
	283		639		345		27		0		1		2858
	794		686		83		0		0		0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M START DATE 03/01/74

MEDIAN (MM/S)	FREQUENCY NO. PCT	50	100	150	200	250
7	0 0	.	.	.	.	.
21	5 0	*				
35	26 1	*****				
49	74 3	*****				
63	97 3	*****				
77	143 5	*****				
91	202 7	*****				
105	135 5	*****				
119	147 5	*****				
133	112 4	*****				
147	107 4	*****				
161	88 3	*****				
175	104 4	*****				
189	147 5	*****				
203	81 3	*****				
217	145 5	*****				
231	103 4	*****				
245	98 3	*****				
259	128 4	*****				
273	104 4	*****				
287	139 5	*****				
301	110 4	*****				
315	139 5	*****				
329	90 3	*****				
343	77 3	*****				
357	68 2	*****				
371	34 1	*****				
385	41 1	*****				
399	14 0	***				
413	12 0	**				
427	18 1	***				
441	10 0	**				
455	16 1	***				
469	12 0	**				
483	10 0	**				
497	17 1	***				
511	3 0	*				
525	1 0					
539	0 0					
553	0 0					

NO. OF SAMPLES OVER 560 = 1  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2858  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-SN DEPTH 20M START DATE 03/01/74

MEDIAN (DEG.T)	FREQNCY NO.	PCT	30	60	90	120	150
5	80	3	*****				
15	69	2	*****				
25	113	4	*****				
35	112	4	*****				
45	91	3	*****				
55	71	2	*****				
65	81	3	*****				
75	54	2	*****				
85	42	1	*****				
95	31	1	*****				
105	43	2	*****				
115	58	2	*****				
125	57	2	*****				
135	46	2	*****				
145	75	3	*****				
155	111	4	*****				
165	69	2	*****				
175	64	2	*****				
185	68	2	*****				
195	132	5	*****				
205	124	4	*****				
215	107	4	*****				
225	102	4	*****				
235	93	3	*****				
245	129	5	*****				
255	144	5	*****				
265	117	4	*****				
275	79	3	*****				
285	71	2	*****				
295	77	3	*****				
305	59	2	*****				
315	46	2	*****				
325	70	2	*****				
335	84	3	*****				
345	44	2	*****				
355	45	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2858  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M START DATE 03/01/74

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	80	160	240	320	400
6.03	0	0	.	.	.	.	.
6.09	0	0					
6.15	0	0					
6.21	5	0	*				
6.27	21	1	***				
6.33	167	6	*****				
6.39	243	9	*****				
6.45	61	2	*****				
6.51	31	1	****				
6.57	23	1	***				
6.63	23	1	***				
6.69	32	1	****				
6.75	33	1	****				
6.81	27	1	***				
6.87	49	2	*****				
6.93	59	2	*****				
6.99	38	1	*****				
7.05	81	3	*****				
7.11	34	1	****				
7.17	69	2	*****				
7.23	81	3	*****				
7.29	87	3	*****				
7.35	125	4	*****				
7.41	137	5	*****				
7.47	93	3	*****				
7.53	108	4	*****				
7.59	118	4	*****				
7.65	111	4	*****				
7.71	243	9	*****				
7.77	177	6	*****				
7.83	101	4	*****				
7.89	177	6	*****				
7.95	95	3	*****				
8.01	118	4	*****				
8.07	89	3	*****				
8.13	2	0					
8.19	0	0					
8.25	0	0					
8.31	0	0					
8.37	0	0					

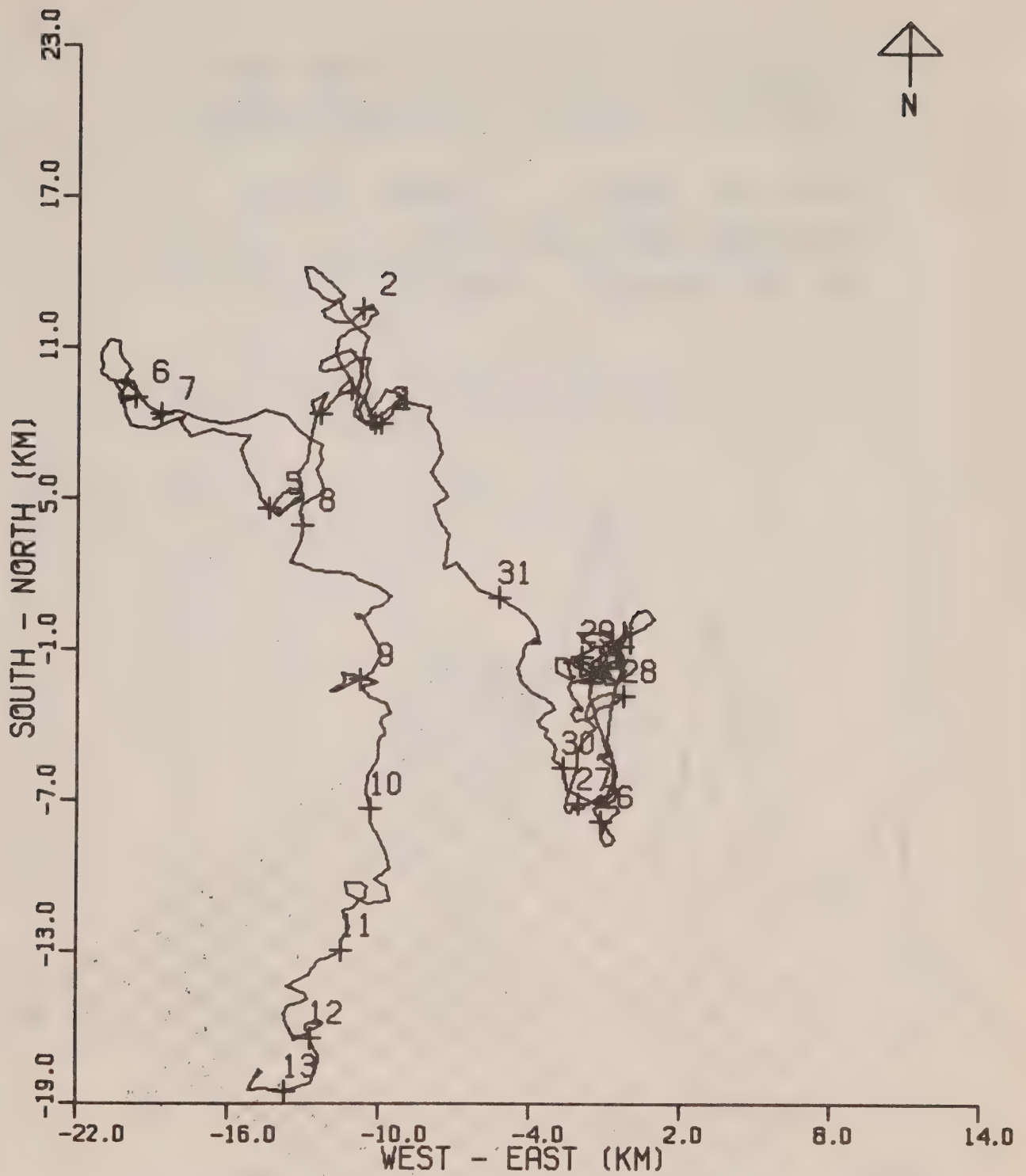
NO. OF SAMPLES OVER 8.40 = 0

NO. OF SAMPLES UNDER 6.00 = 0

TOTAL NO. OF OBSERVATIONS = 2858

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5N

DEPTH 20 M.

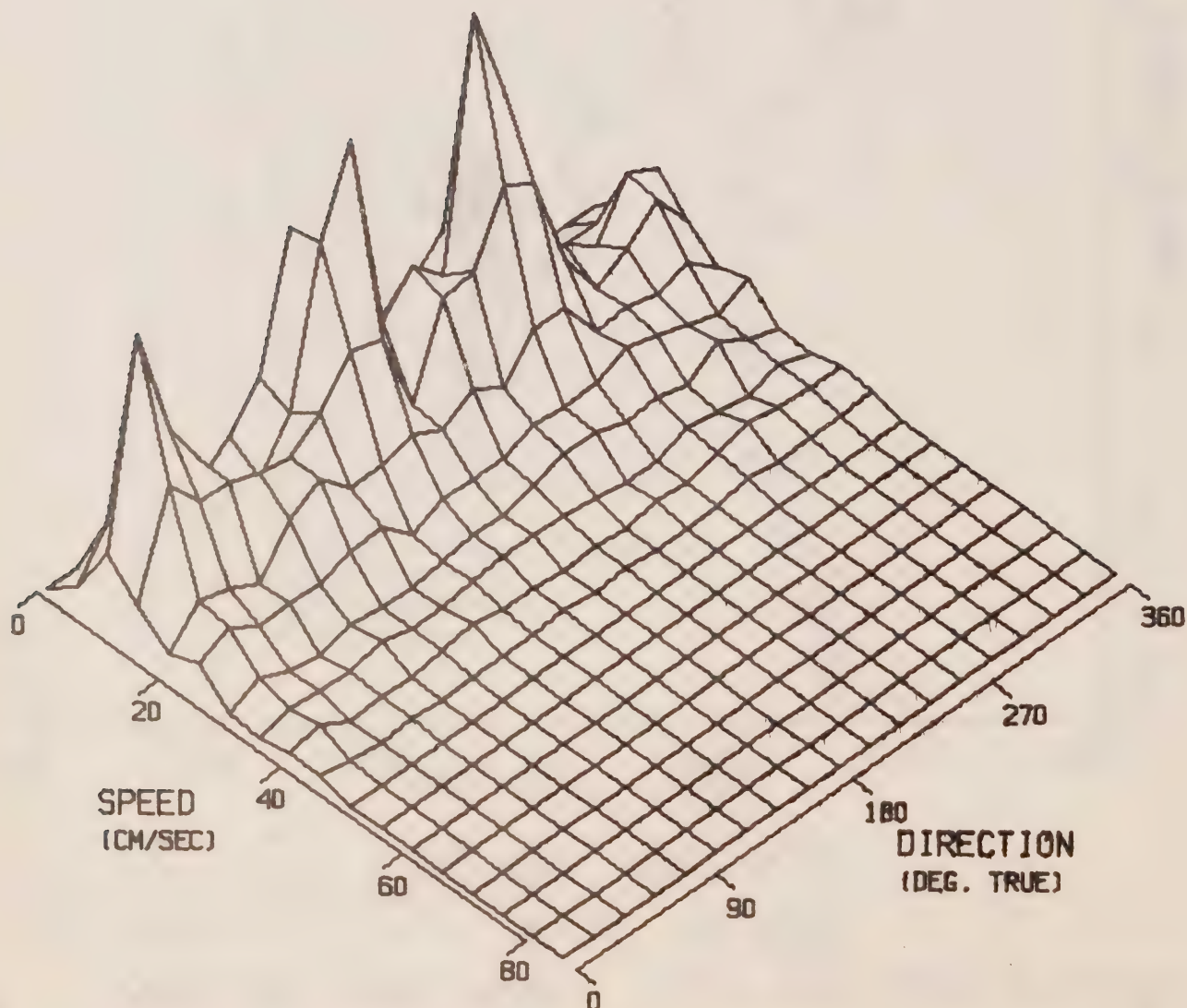
STARTING DATE: 23/ 1/74    ENDING DATE: 13/ 2/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 23/ 1/74

NO. OF SAMPLES = 3000



STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 23/ 1/74  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	009	041	016	010	004	002							82
15- 29	022	103	032	019	010	001							187
30- 44	045	055	029	007	003								139
45- 59	024	050	018	003	003	001							99
60- 74	018	054	021	005	004								102
75- 89	008	025	023	010	001								67
90-104	015	025	036	007	003								86
105-119	029	038	031	011	007								116
120-134	029	045	031	004	002	001							112
135-149	080	087	035	004	004	001							211
150-164	071	119	033	007	004	001							235
165-179	012	046	026	008	003								95
180-194	020	035	028	006	005								94
195-209	027	075	034	011	004	002							153
210-224	027	053	017	013	001								111
225-239	032	081	041	011	006	001							172
240-254	053	175	036	016	002								282
255-269	035	079	043	013	001	001							172
270-284	022	034	018	018	005	001							98
285-299	013	034	024	013	005	005							94
300-314	003	020	020	015	004	005							67
315-329	007	025	018	017	002	003							72
330-344	011	044	026	014	006	005							106
345-359	004	024	012	001	002	002							45
	616	648		91		0		0		0			2997
	1367		243		32		0		0		0		

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M START DATE 23/01/74

MEDIAN (MM/S)	FREQUENCY NO. PCT .	70 .	140 .	210 .	280 .	350 .
6	0 0					
18	2 0					
30	18 1	***				
42	71 2	*****				
54	189 6	*****				
66	253 8	*****				
78	159 5	*****				
90	282 9	*****				
102	221 7	*****				
114	228 8	*****				
126	172 6	*****				
138	169 6	*****				
150	169 6	*****				
162	153 5	*****				
174	171 6	*****				
186	110 4	*****				
198	93 3	*****				
210	73 2	*****				
222	55 2	*****				
234	59 2	*****				
246	31 1	****				
258	45 2	*****				
270	63 2	*****				
282	33 1	*****				
294	27 1	****				
306	17 1	**				
318	20 1	***				
330	22 1	***				
342	9 0	■				
354	15 1	**				
366	10 0	■				
378	13 0	**				
390	13 0	**				
402	5 0	■				
414	8 0	*				
426	5 0	*				
438	8 0	*				
450	6 0	*				
462	0 0					
474	0 0					

NO. OF SAMPLES OVER 480 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M START DATE 23/01/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	53	2	*****	.	.	.	.
15	93	3	*****				
25	137	5	*****				
35	93	3	*****				
45	82	3	*****				
55	59	2	*****				
65	62	2	*****				
75	58	2	*****				
85	49	2	*****				
95	57	2	*****				
105	67	2	*****				
115	76	3	*****				
125	76	3	*****				
135	89	3	*****				
145	168	6	*****				
155	178	6	*****				
165	92	3	*****				
175	50	2	*****				
185	62	2	*****				
195	103	3	*****				
205	79	3	*****				
215	76	3	*****				
225	99	3	*****				
235	116	4	*****				
245	189	6	*****				
255	154	5	*****				
265	107	4	*****				
275	60	2	*****				
285	78	3	*****				
295	50	2	*****				
305	47	2	*****				
315	40	1	*****				
325	53	2	*****				
335	76	3	*****				
345	41	1	*****				
355	31	1	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M START DATE 23/01/74

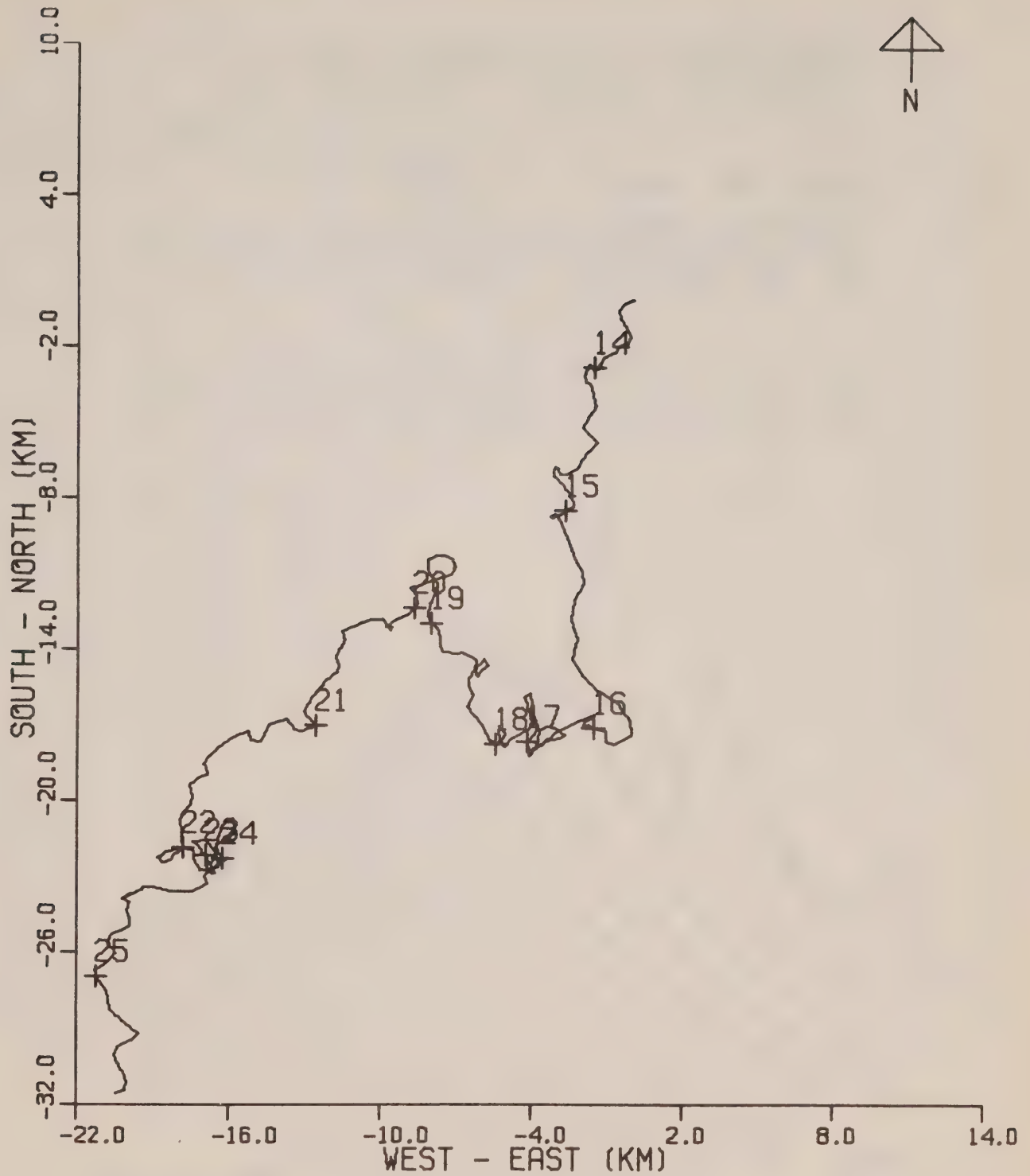
MEDIAN (DEG.C)	FREQUENCY NO.	PCT	100	200	300	400	500
6.23	0	0	.	.	.	.	.
6.29	0	0					
6.35	0	0					
6.41	10	0	*				
6.47	3	0					
6.53	17	1	**				
6.59	13	0	*				
6.65	16	1	**				
6.71	23	1	**				
6.77	17	1	**				
6.83	31	1	***				
6.89	49	2	*****				
6.95	79	3	*****				
7.01	134	4	*****				
7.07	92	3	*****				
7.13	133	4	*****				
7.19	356	12	*****				
7.25	450	15	*****				
7.31	229	8	*****				
7.37	246	8	*****				
7.43	167	6	*****				
7.49	57	2	*****				
7.55	63	2	*****				
7.61	85	3	*****				
7.67	80	3	*****				
7.73	92	3	*****				
7.79	99	3	*****				
7.85	153	5	*****				
7.91	159	5	*****				
7.97	48	2	*****				
8.03	75	3	*****				
8.09	19	1	**				
8.15	5	0	*				
8.21	0	0					
8.27	0	0					
8.33	0	0					
8.39	0	0					
8.45	0	0					
8.51	0	0					
8.57	0	0					

NO. OF SAMPLES OVER 8.60 = 0

NO. OF SAMPLES UNDER 6.20 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5N

DEPTH 20 M.

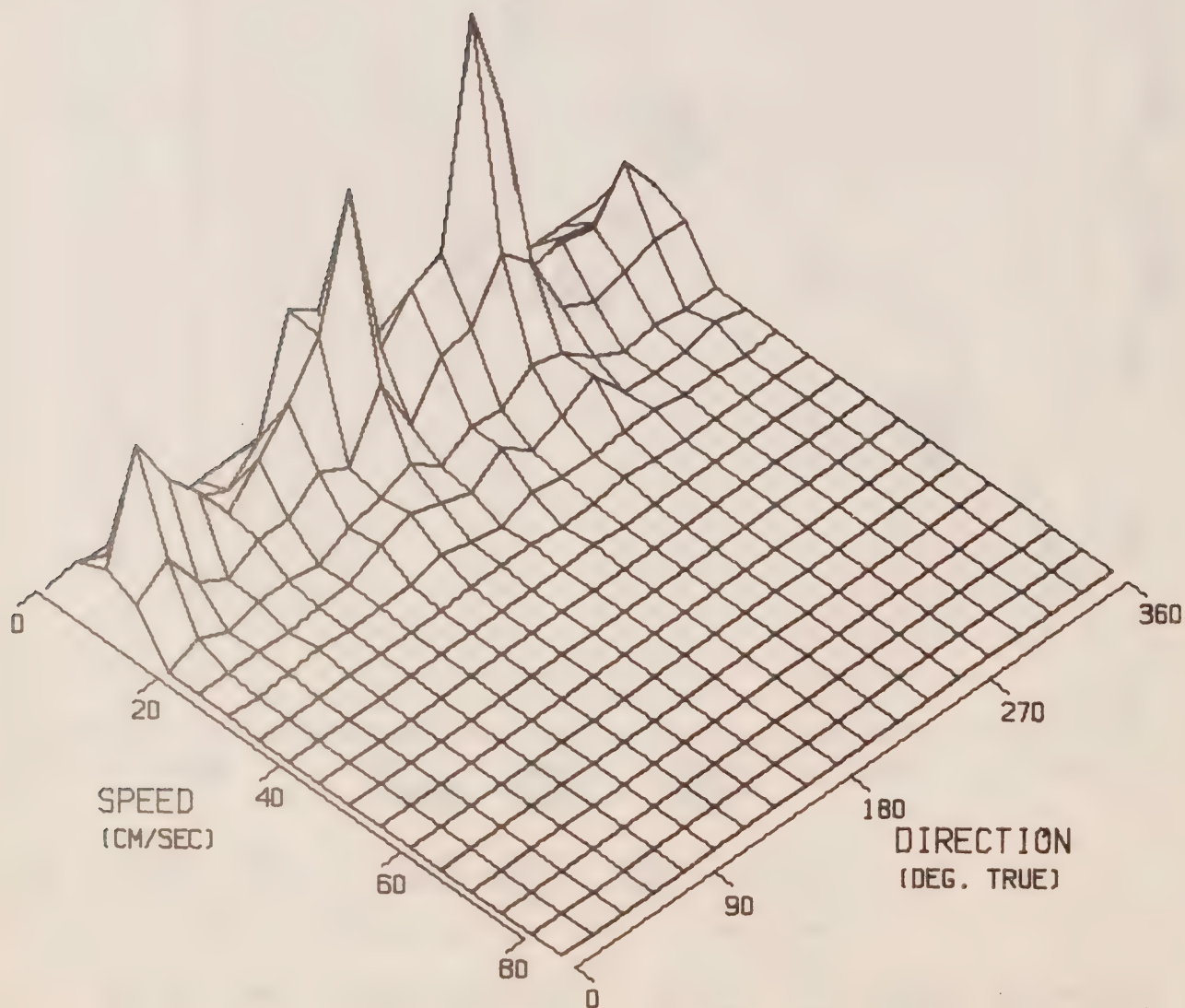
STARTING DATE: 13/ 2/74    ENDING DATE: 25/ 2/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5N      DEPTH 20 M.

STARTING DATE: 13/ 2/74

NO. OF SAMPLES = 1784





STN. NO. HS-5N DEPTH 20 M.

STARTING DATE: 13/ 2/74  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	080	160	240	320	400	480	560	640	720	800	880	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	079	159	239	319	399	479	559	639	719	799	879	959	
0- 14	016	035	006	001									58
15- 29	010	069	006										85
30- 44	005	035	001	002									43
45- 59	016	024	001	002									43
60- 74	010	020	003	001									34
75- 89	009	013	004	001									27
90-104	007	023	003	001									34
105-119	007	029	006	007									49
120-134	020	028	009	007									64
135-149	049	046	013	010	001								119
150-164	050	107	021	006	002								186
165-179	024	031	006	004									65
180-194	017	031	009	002	001								60
195-209	018	056	018	008	001								101
210-224	018	039	013	006									76
225-239	024	102	018	004	001								149
240-254	045	141	027	003	001								217
255-269	029	055	025	009	001								119
270-284	010	030	014	002									56
285-299	008	025	004	004									41
300-314	001	022	002										25
315-329	012	026	006	002									46
330-344	009	040	005	001									55
345-359	006	023		003									32

420 220 8 0 0 0 0 0 1784  
1050 86 0 0 0 0

NO. OF SPEEDS EXCEEDING 960 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5N DEPTH 20M START DATE 13/02/74

MEDIAN (MM/S)	FREQUENCY NO. PCT	50	100	150	200	250
5	0 0	.	.	.	.	.
15	0 0					
25	4 0	*				
35	20 1	*****				
45	28 2	*****				
55	103 6	*****				
65	127 7	*****				
75	138 8	*****				
85	222 12	*****				
95	162 9	*****				
105	203 11	*****				
115	101 6	*****				
125	139 8	*****				
135	88 5	*****				
145	91 5	*****				
155	44 2	*****				
165	38 2	*****				
175	46 3	*****				
185	35 2	*****				
195	28 2	*****				
205	22 1	****				
215	16 1	***				
225	14 1	**				
235	26 1	*****				
245	15 1	***				
255	11 1	**				
265	16 1	***				
275	12 1	**				
285	10 1	**				
295	8 0	**				
305	5 0	*				
315	4 0	*				
325	2 0					
335	1 0					
345	2 0					
355	1 0					
365	1 0					
375	1 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1784  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5N DEPTH 20M START DATE 13/02/74

MEDIAN (DEG.T)	FREQUNCY NO.	PCT	30	60	90	120	150
5	42	2	*****				
15	50	3	*****				
25	53	3	*****				
35	33	2	*****				
45	26	1	*****				
55	26	1	*****				
65	24	1	*****				
75	22	1	*****				
85	15	1	*****				
95	25	1	*****				
105	17	1	*****				
115	45	3	*****				
125	42	2	*****				
135	55	3	*****				
145	92	5	*****				
155	134	8	*****				
165	69	4	*****				
175	39	2	*****				
185	33	2	*****				
195	63	4	*****				
205	66	4	*****				
215	49	3	*****				
225	77	4	*****				
235	105	6	*****				
245	140	8	*****				
255	132	7	*****				
265	67	4	*****				
275	29	2	*****				
285	31	2	*****				
295	27	2	*****				
305	18	1	*****				
315	16	1	*****				
325	36	2	*****				
335	44	2	*****				
345	25	1	*****				
355	17	1	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1784  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5N DEPTH 20M START DATE 13/02/74

MEDIAN (DEG.C)	FREQINCY NO. PCT .	100 .	200 .	300 .	400 .	500 .
6.42	0 0					
6.46	0 0					
6.50	0 0					
6.54	1 0					
6.58	9 1 *					
6.62	8 0 *					
6.66	16 1 **					
6.70	7 0 *					
6.74	2 0					
6.78	2 0					
6.82	17 1 **					
6.86	28 2 ***					
6.90	35 2 ****					
6.94	31 2 ***					
6.98	8 0 *					
7.02	27 2 ***					
7.06	51 3 *****					
7.10	74 4 *****					
7.14	54 3 *****					
7.18	164 9 *****					
7.22	173 10 *****					
7.26	266 15 *****					
7.30	171 10 *****					
7.34	398 22 *****					
7.38	217 12 *****					
7.42	25 1 ***					
7.46	0 0					
7.50	0 0					
7.54	0 0					
7.58	0 0					
7.62	0 0					
7.66	0 0					
7.70	0 0					
7.74	0 0					
7.78	0 0					
7.82	0 0					
7.86	0 0					
7.90	0 0					
7.94	0 0					
7.98	0 0					

NO. OF SAMPLES OVER 8.00 = 0

NO. OF SAMPLES UNDER 6.40 = 0

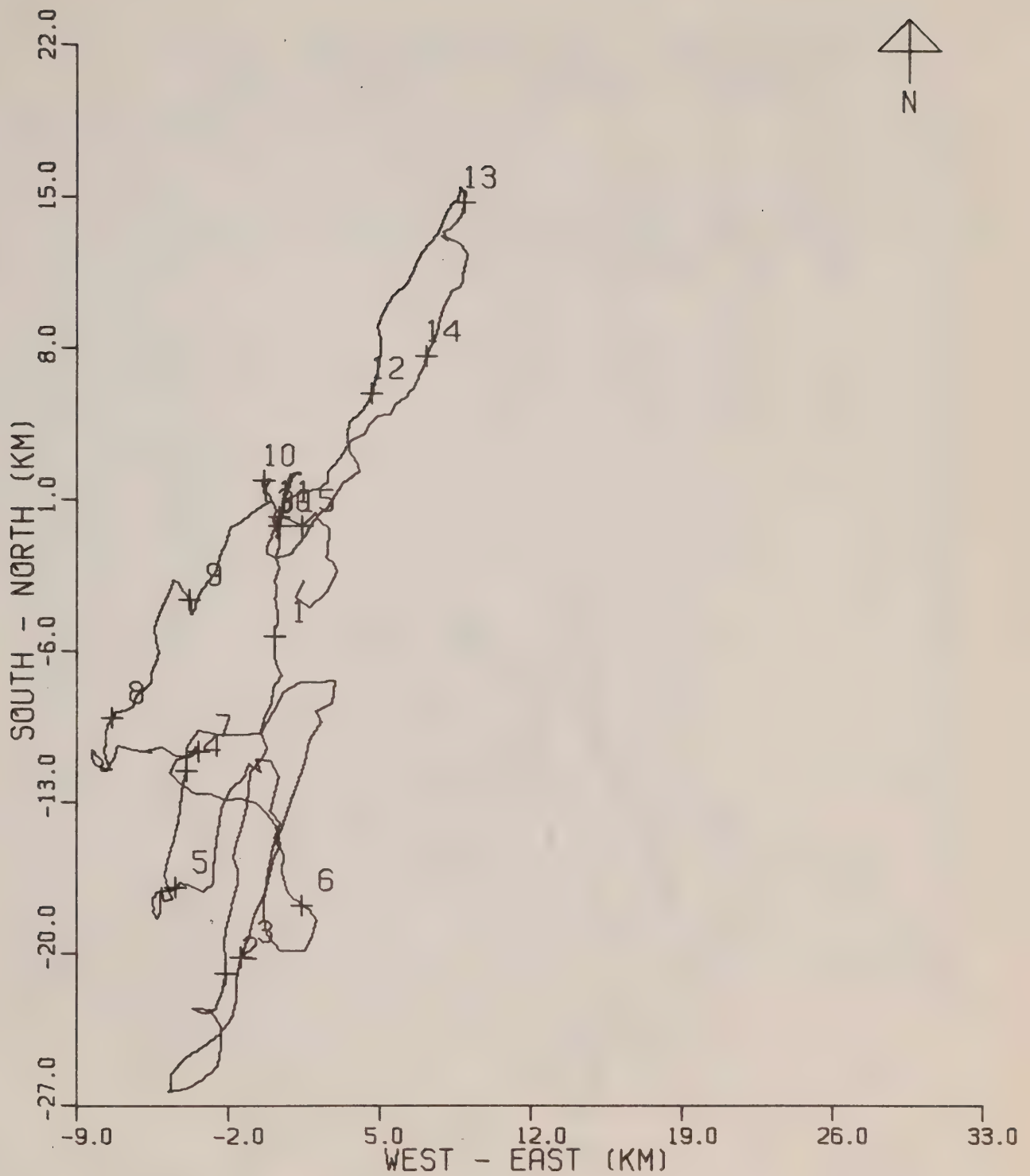
TOTAL NO. OF OBSERVATIONS = 1784

SAMPLE INTERVAL = 10 MINUTES



DATA FOR 30-METRE DEPTH





STN. NO. HS-5S

DEPTH 30 M.

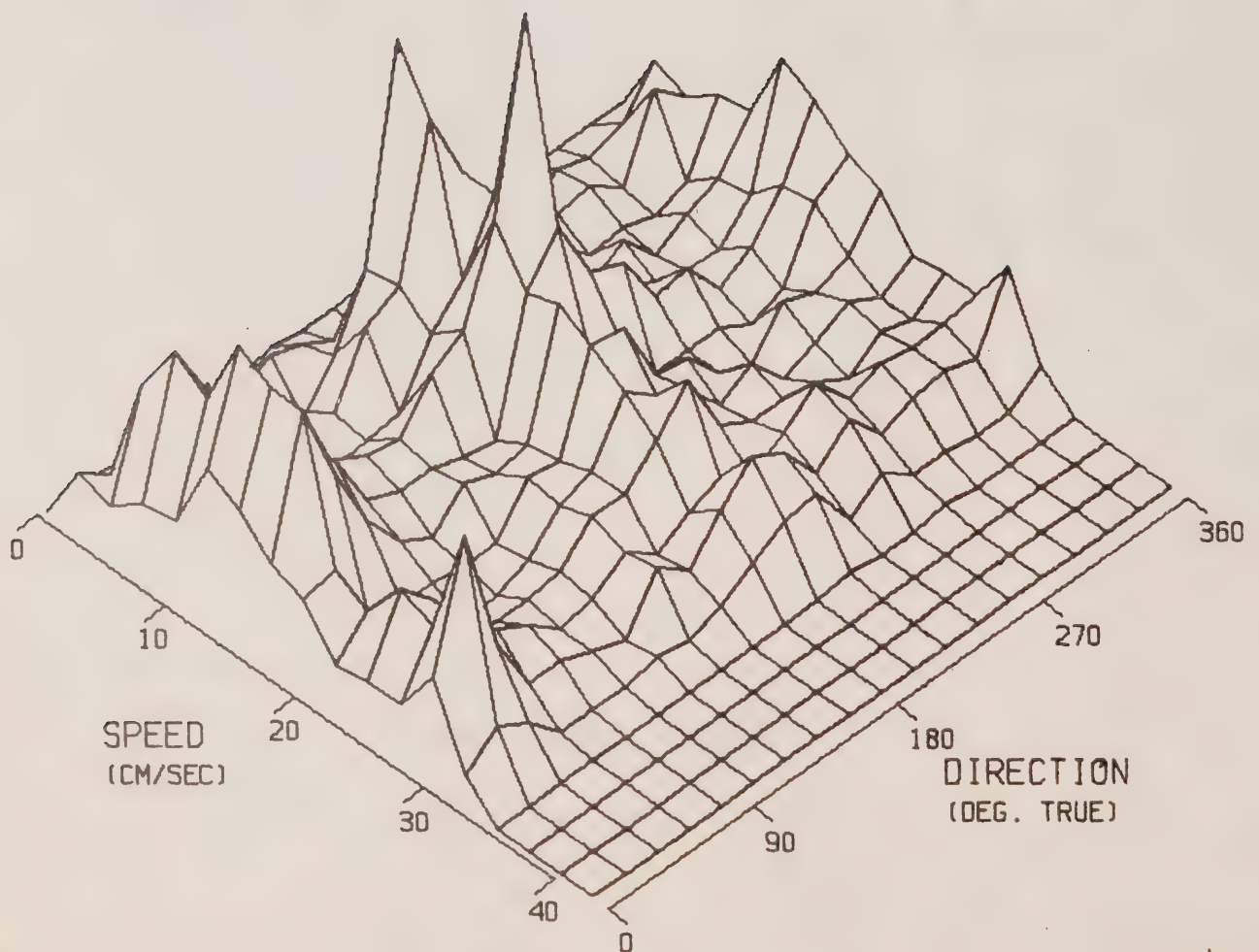
STARTING DATE: 29/11/72    ENDING DATE: 15/12/72

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 29/11/72

NO. OF SAMPLES = 2298





STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 29/11/72

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	004	020	029	036	019	020	013	030	004				175
15- 29	002	038	038	056	037	015	023	037	001				247
30- 44	003	027	017	024	022	014	020	022	001				150
45- 59	001	017	014	028	014	007	008	012	001				102
60- 74	008	016	008	018	012	004	006	009					81
75- 89	003	004	005	013	004	001	007	005	001				43
90-104	004	006	007	007	003	001	003	004	001				36
105-119	002	003	009	009	006	003	004	002	001				39
120-134	006	002	009	008	004	007	008	006					51
135-149	004	012	012	014	007	010	013	007		001			79
150-164	002	021	016	014	007	010	008	007	001				86
165-179		051	019	016	019	013	008	012	001				139
180-194	002	052	040	051	027	032	021	013	006				244
195-209	001	025	047	055	017	019	017	019	001				201
210-224		003	015	035	015	013	012	015	005				113
225-239	001	012	007	020	007	008	013	009	002				79
240-254		004	007	012	007	006	009	008	001				54
255-269		005	008	009	005	007	013	017					64
270-284	001	004	007	007	005	005	006	004	001				40
285-299		004	003	008	002	004	014	006	001				42
300-314	004	003	002	005	005	011	008	011	001				50
315-329	002	001	004	005	004	007	005	009					37
330-344	002	009	006	012	009	005	008	006	001				58
345-359	010	007	011	018	019	006	010	006					87
	62		340		276		257		31		0		2297
		346		480		228		276		0		1	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 1

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M. START DATE 29/11/72

MEDIAN (MM/S)	FREQUENCY NO.	PCT	40	80	120	160	200
5	0	0	.	.	.	.	.
15	2	0	*				
25	19	1	*****				
35	62	3	*****				
45	64	3	*****				
55	118	5	*****				
65	71	3	*****				
75	72	3	*****				
85	109	5	*****				
95	52	2	*****				
105	89	4	*****				
115	90	4	*****				
125	172	7	*****				
135	91	4	*****				
145	132	6	*****				
155	85	4	*****				
165	73	3	*****				
175	67	3	*****				
185	61	3	*****				
195	75	3	*****				
205	59	3	*****				
215	78	3	*****				
225	42	2	*****				
235	88	4	*****				
245	48	2	*****				
255	50	2	*****				
265	74	3	*****				
275	46	2	*****				
285	88	4	*****				
295	54	2	*****				
305	95	4	*****				
315	39	2	*****				
325	21	1	*****				
335	9	0	**				
345	1	0					
355	0	0					
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2298  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M. START DATE 29/11/72

MEDIAN (DEG,T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	115	5	*****				
15	164	7	*****				
25	157	7	*****				
35	98	4	*****				
45	87	4	*****				
55	62	3	*****				
65	55	2	*****				
75	36	2	*****				
85	26	1	*****				
95	23	1	*****				
105	28	1	*****				
115	27	1	*****				
125	30	1	*****				
135	43	2	*****				
145	60	3	*****				
155	53	2	*****				
165	67	3	*****				
175	112	5	*****				
185	162	7	*****				
195	166	7	*****				
205	111	5	*****				
215	77	3	*****				
225	58	3	*****				
235	54	2	*****				
245	34	1	*****				
255	47	2	*****				
265	36	2	*****				
275	28	1	*****				
285	29	1	*****				
295	22	1	*****				
305	30	1	*****				
315	26	1	*****				
325	30	1	*****				
335	41	2	*****				
345	49	2	*****				
355	55	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2298  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M, START DATE 29/11/72

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	50 ,	100 .	150 .	200 .	250 .
7.13	0	0					
7.19	0	0					
7.25	29	1	*****				
7.31	90	4	*****				
7.37	74	3	*****				
7.43	14	1	***				
7.49	55	2	*****				
7.55	30	1	*****				
7.61	10	0	**				
7.67	8	0	**				
7.73	5	0	*				
7.79	36	2	*****				
7.85	27	1	*****				
7.91	64	3	*****				
7.97	68	3	*****				
8.03	37	2	*****				
8.09	129	6	*****				
8.15	195	8	*****				
8.21	199	9	*****				
8.27	230	10	*****				
8.33	96	4	*****				
8.39	79	3	*****				
8.45	95	4	*****				
8.51	222	10	*****				
8.57	147	6	*****				
8.63	113	5	*****				
8.69	123	5	*****				
8.75	68	3	*****				
8.81	29	1	*****				
8.87	27	1	*****				
8.93	0	0					
8.99	0	0					
9.05	0	0					
9.11	0	0					
9.17	0	0					
9.23	0	0					
9.29	0	0					
9.35	0	0					
9.41	0	0					
9.47	0	0					

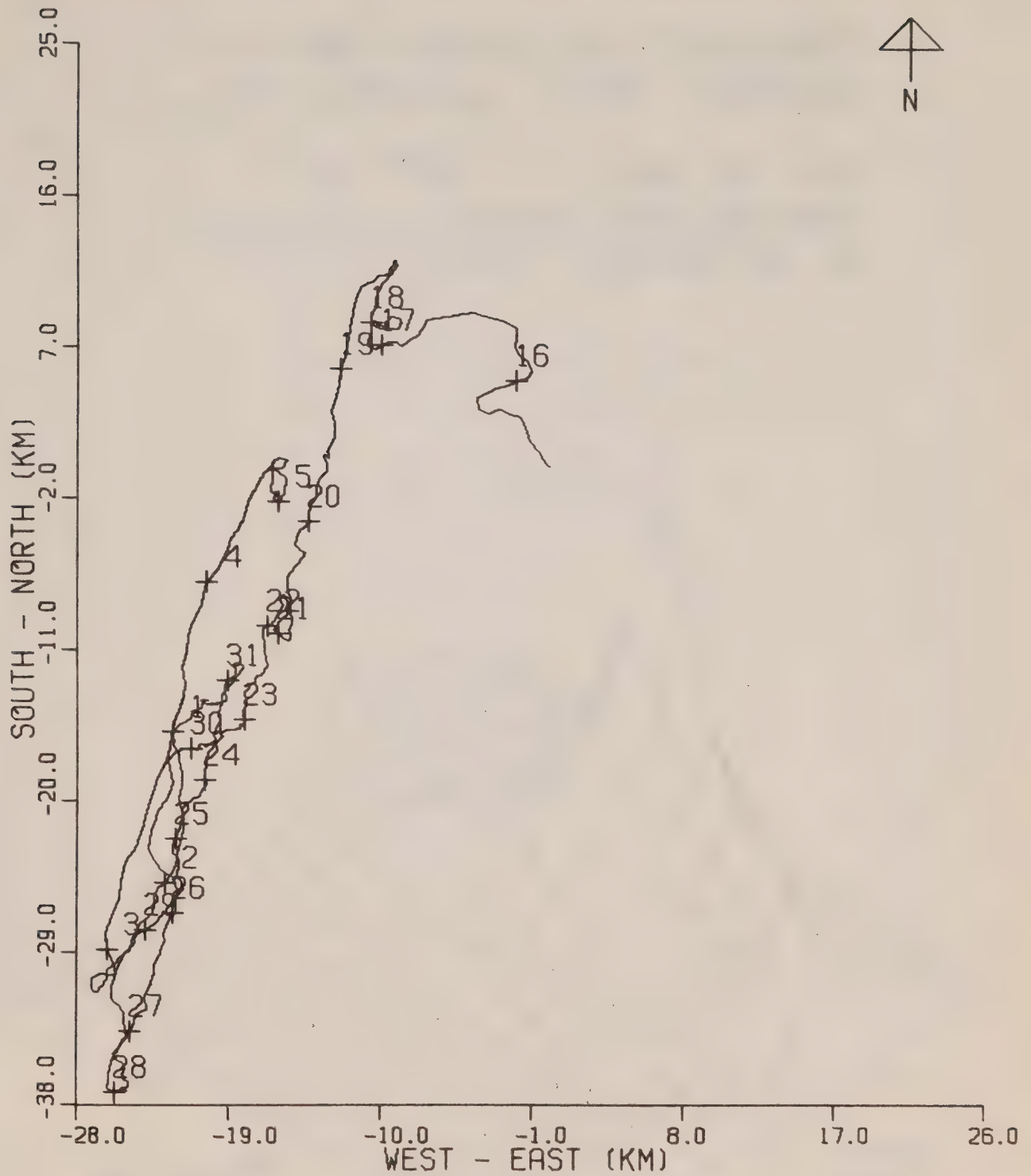
NO. OF SAMPLES OVER 9.50 = 0

NO. OF SAMPLES UNDER 7.10 = 0

TOTAL NO. OF OBSERVATIONS = 2297

SAMPLE INTERVAL = 10 MINUTES





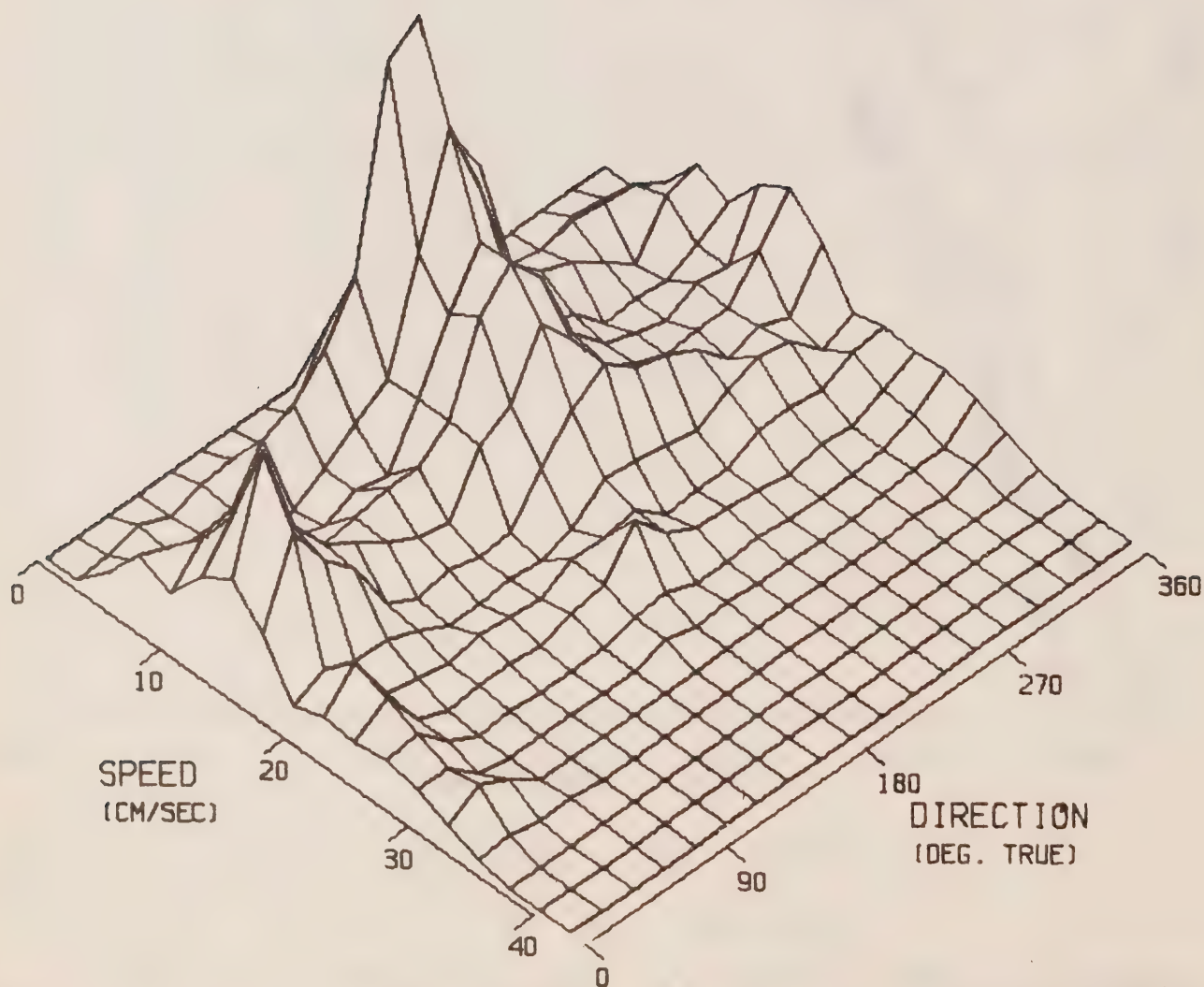
STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 15/12/72    ENDING DATE: 5/ 1/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.  
STARTING DATE: 15/12/72  
NO. OF SAMPLES = 3000



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 15/12/72

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		013	024	054	026	019	021	015	006				176
15- 29	001	007	045	067	040	024	022	014	006				226
30- 44	001	005	011	046	034	008	008	005	005				123
45- 59	003	003	019	030	024	003	002		003				87
60- 74	002	001	008	010	016	007	001						45
75- 89		002	007	022	008	002	003						44
90-104	004	008	005	014	002	004	001						38
105-119	003	016	007	016	001	002	002						47
120-134	002	025	012	014	003	001							57
135-149	003	038	011	011	002	002	004						71
150-164	016	037	029	023	001	002	003	004					115
165-179	018	081	047	037	009	009	016						217
180-194	017	117	066	062	015	008	016						301
195-209	009	135	068	054	026	006	005	001					304
210-224	014	076	062	059	037	007	003						258
225-239	019	080	027	033	027	003	005						194
240-254	007	047	016	028	018	003	001						120
255-269	008	023	018	019	020	005	001						94
270-284	002	024	009	013	016	010							74
285-299		023	008	013	020	004	002	002					72
300-314	003	011	010	009	013	015	002						63
315-329	003	016	010	015	016	007	002	002					71
330-344	003	018	013	019	004	011	007	003	001				79
345-359	001	024	022	032	016	010	009	004	004				122
	139		554		394		136		25		0		3000
		830		700		172		50		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M. START DATE 15/12/72

MEDIAN (MM/S)	FREQUENCY NO. PCT	60	120	180	240	300
5	0 0	.	.	.	.	.
15	17 1	***				
25	26 1	****				
35	198 7	*****				
45	199 7	*****				
55	254 8	*****				
65	135 5	*****				
75	140 5	*****				
85	170 6	*****				
95	94 3	*****				
105	164 5	*****				
115	126 4	*****				
125	197 7	*****				
135	140 5	*****				
145	226 8	*****				
155	137 5	*****				
165	110 4	*****				
175	129 4	*****				
185	77 3	*****				
195	78 3	*****				
205	39 1	*****				
215	58 2	*****				
225	31 1	*****				
235	61 2	*****				
245	38 1	*****				
255	26 1	****				
265	42 1	*****				
275	13 0	**				
285	10 0	**				
295	15 1	***				
305	14 0	**				
315	11 0	**				
325	8 0	*				
335	13 0	**				
345	4 0	*				
355	0 0					
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S, DEPTH 30M, START DATE 15/12/72

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	115	4	*****				
15	142	5	*****				
25	155	5	*****				
35	80	3	*****				
45	70	2	*****				
55	57	2	*****				
65	28	1	*****				
75	32	1	*****				
85	27	1	*****				
95	23	1	*****				
105	37	1	*****				
115	24	1	*****				
125	45	2	*****				
135	38	1	*****				
145	47	2	*****				
155	65	2	*****				
165	116	4	*****				
175	162	5	*****				
185	187	6	*****				
195	221	7	*****				
205	207	7	*****				
215	170	6	*****				
225	150	5	*****				
235	115	4	*****				
245	83	3	*****				
255	67	2	*****				
265	58	2	*****				
275	51	2	*****				
285	48	2	*****				
295	51	2	*****				
305	40	1	*****				
315	47	2	*****				
325	44	1	*****				
335	45	2	*****				
345	74	2	*****				
355	79	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M. START DATE 15/12/72

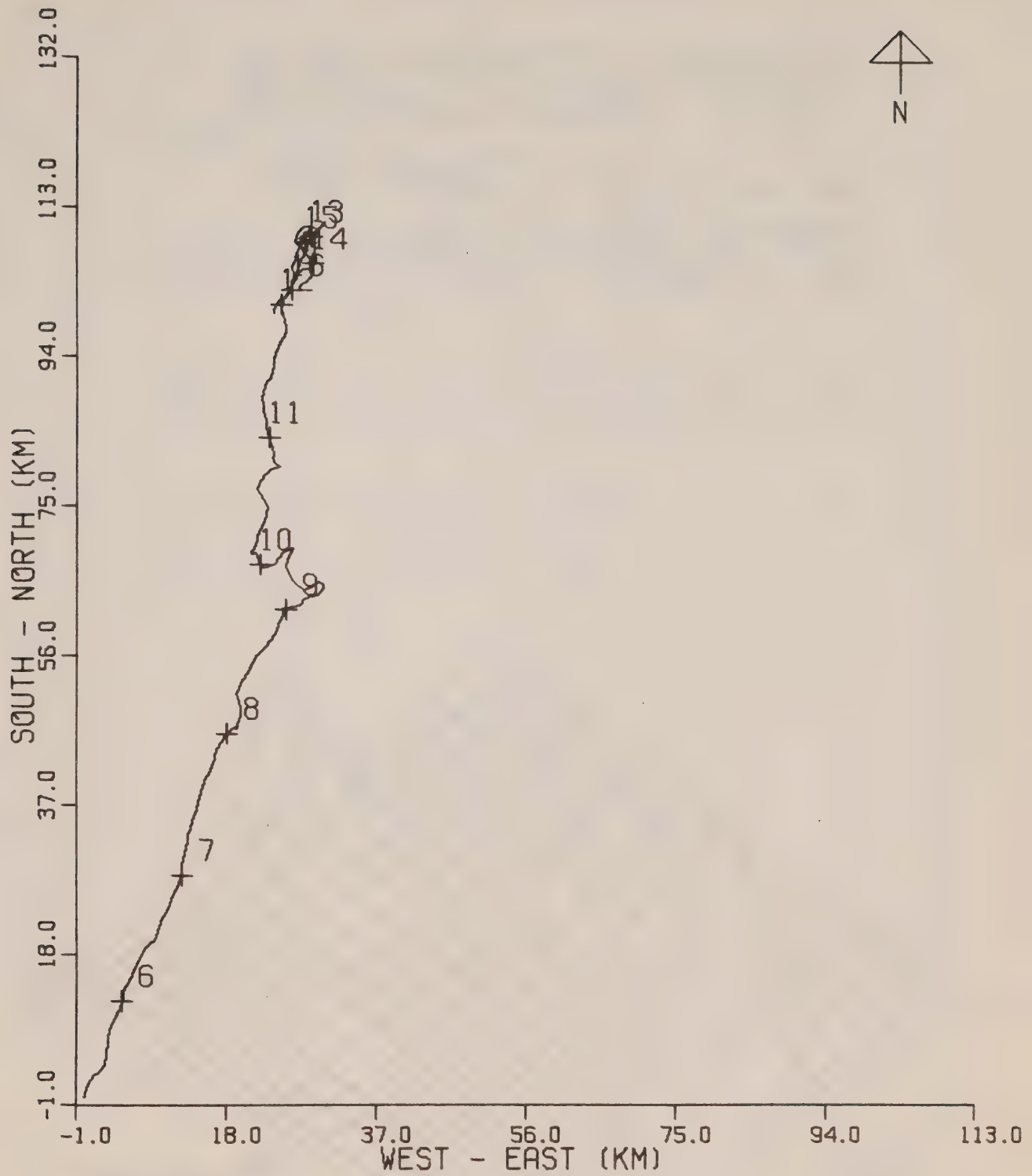
MEDIAN (DEG.C)	FREQ'NCY NO.	PCT .	140 .	280 .	420 .	560 .	700 .
7.12	0	0					
7.16	0	0					
7.20	0	0					
7.24	0	0					
7.28	0	0					
7.32	3	0					
7.36	4	0					
7.40	10	0	*				
7.44	5	0					
7.48	29	1	**				
7.52	15	1	*				
7.56	14	0	*				
7.60	14	0	*				
7.64	40	1	***				
7.68	74	2	*****				
7.72	30	1	**				
7.76	59	2	*****				
7.80	43	1	***				
7.84	38	1	***				
7.88	60	2	*****				
7.92	57	2	*****				
7.96	54	2	*****				
8.00	66	2	*****				
8.04	77	3	*****				
8.08	165	6	*****				
8.12	161	5	*****				
8.16	223	7	*****				
8.20	206	7	*****				
8.24	205	7	*****				
8.28	764	25	*****				
8.32	379	13	*****				
8.36	146	5	*****				
8.40	55	2	*****				
8.44	4	0					
8.48	0	0					
8.52	0	0					
8.56	0	0					
8.60	0	0					
8.64	0	0					
8.68	0	0					

NO. OF SAMPLES OVER 8.70 = 0

NO. OF SAMPLES UNDER 7.10 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



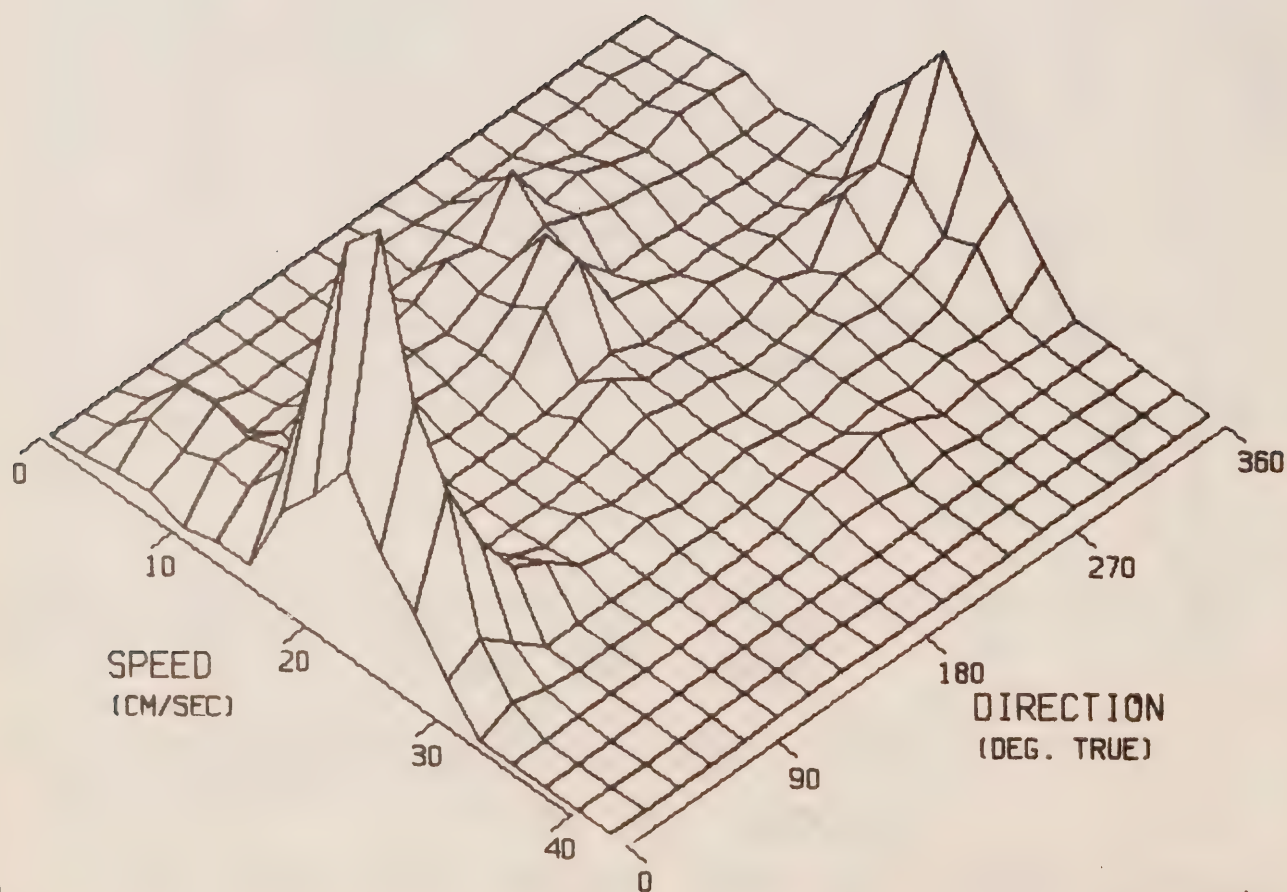
STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 5/ 1/73      ENDING DATE: 16/ 1/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.  
STARTING DATE: 5/ 1/73  
NO. OF SAMPLES = 1610





STN. NO. HS-55

DEPTH 30 M.

STARTING DATE: 5/ 1/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14			005	005	008	042	074	061	015				210
15- 29	002	016	016	029	086	141	081	029					400
30- 44	004	021	025	017	029	051	047	017					211
45- 59	001	011	007	010	005	012	019	007					72
60- 74	002	001	008	003	002	004	011	002					33
75- 89	001		009	002			011	001					24
90-104		002	003	002		001	007						15
105-119			003	001		001	004						9
120-134		001	009				002						12
135-149		001	003			001	003	001					9
150-164	001	002	004	003	002	002	002						16
165-179		002	011	009	004	005	002						33
180-194	001	004	013	028	008	007	002		001				64
195-209	001	010	020	028	003	004	002	002	005				75
210-224		024	018	014	002	002	002	004	001				67
225-239		011	010	002	001	001	001	005	004				35
240-254		007	010	003	001		002	004	004				31
255-269		006	007	001	005	001	004	006	002				32
270-284	001	003	005		002	003	006	001					21
285-299	001	002	004	001	005	003	005	003					24
300-314	001	001	002	001	007	009	002	005	001				29
315-329	003	005	002		011	009	008	002					40
330-344	001	006		002	007	025	014	007					62
345-359	001	002			023	034	019	007					86
	21		194		245		317		18		0	0	1610
		143		164		390		118		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M, START DATE 05/01/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT.	40	80	120	160	200
5	0	0	.	.	.	.	.
15	5	0	*				
25	6	0	**				
35	13	1	***				
45	28	2	*****				
55	34	2	*****				
65	28	2	*****				
75	50	3	*****				
85	47	3	*****				
95	44	3	*****				
105	62	4	*****				
115	41	3	*****				
125	42	3	*****				
135	36	2	*****				
145	59	4	*****				
155	27	2	*****				
165	29	2	*****				
175	66	4	*****				
185	46	3	*****				
195	104	6	*****				
205	88	5	*****				
215	133	8	*****				
225	103	6	*****				
235	97	6	*****				
245	58	4	*****				
255	73	5	*****				
265	94	6	*****				
275	61	4	*****				
285	65	4	*****				
295	23	1	*****				
305	13	1	***				
315	17	1	****				
325	2	0	*				
335	12	1	***				
345	3	0	*				
355	1	0					
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1610  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 30M, START DATE 05/01/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	60	120	180	240	300
5	136	8	*****				
15	223	14	*****				
25	271	17	*****				
35	156	10	*****				
45	74	5	*****				
55	34	2	*****				
65	23	1	****				
75	22	1	****				
85	14	1	**				
95	10	1	**				
105	5	0	*				
115	6	0	*				
125	7	0	*				
135	10	1	**				
145	5	0	*				
155	6	0	*				
165	20	1	***				
175	24	1	****				
185	46	3	*****				
195	51	3	*****				
205	47	3	*****				
215	52	3	*****				
225	24	1	****				
235	22	1	****				
245	18	1	***				
255	30	2	*****				
265	12	1	**				
275	12	1	**				
285	22	1	****				
295	13	1	**				
305	17	1	***				
315	27	2	*****				
325	28	2	*****				
335	38	2	*****				
345	47	3	*****				
355	58	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1610  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M, START DATE 05/01/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	40	80	120	160	200
6.22	0	0	.	.	.	.	.
6.26	0	0					
6.30	0	0					
6.34	0	0					
6.38	1	0					
6.42	5	0	*				
6.46	9	1	**				
6.50	10	1	***				
6.54	13	1	***				
6.58	22	1	*****				
6.62	14	1	****				
6.66	16	1	****				
6.70	7	0	**				
6.74	13	1	***				
6.78	101	6	*****				
6.82	80	5	*****				
6.86	64	4	*****				
6.90	37	2	*****				
6.94	21	1	*****				
6.98	29	2	*****				
7.02	8	0	**				
7.06	20	1	*****				
7.10	32	2	*****				
7.14	34	2	*****				
7.18	114	7	*****				
7.22	22	1	*****				
7.26	49	3	*****				
7.30	41	3	*****				
7.34	46	3	*****				
7.38	116	7	*****				
7.42	70	4	*****				
7.46	70	4	*****				
7.50	90	6	*****				
7.54	135	8	*****				
7.58	225	14	*****				
7.62	61	4	*****				
7.66	29	2	*****				
7.70	6	0	**				
7.74	0	0					
7.78	0	0					

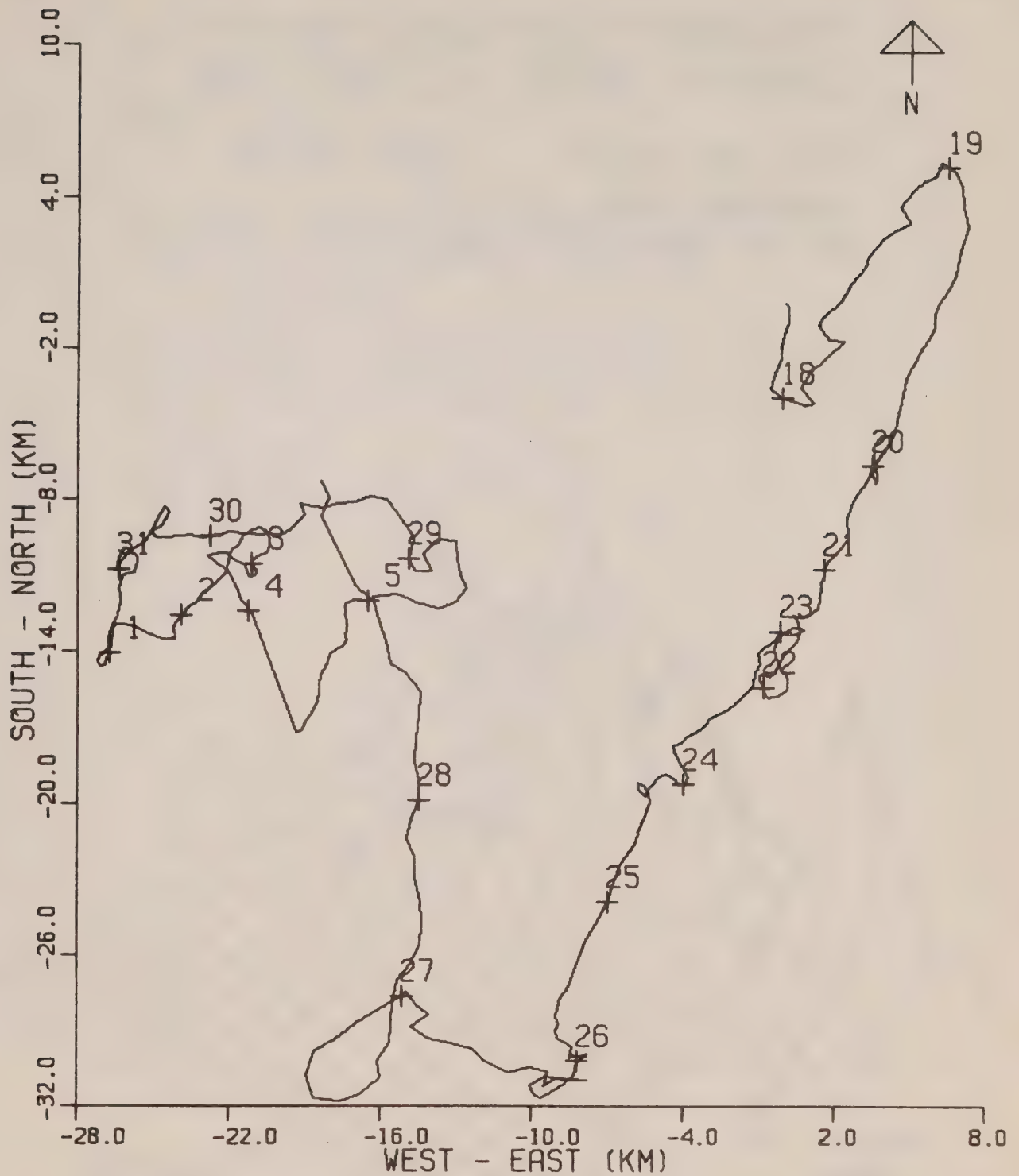
NO. OF SAMPLES OVER 7.80 = 0

NO. OF SAMPLES UNDER 6.20 = 0

TOTAL NO. OF OBSERVATIONS = 1610

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5S

DEPTH 30 M.

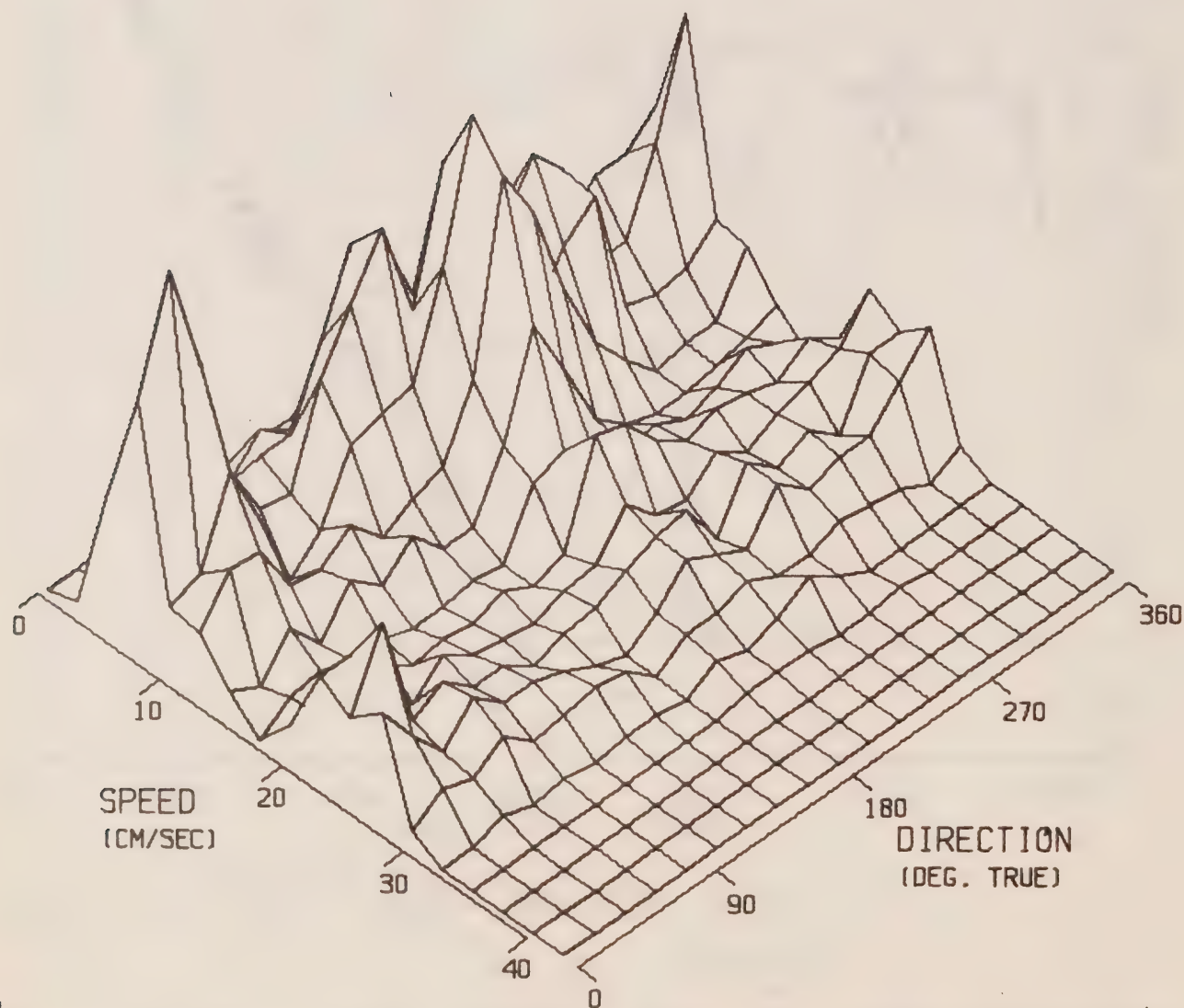
STARTING DATE: 17/ 1/73    ENDING DATE: 5/ 2/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 17/ 1/73

NO. OF SAMPLES = 2691



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 17/ 1/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (NM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	001	034	027	014	006	018	028	006					134
15- 29	002	056	026	016	004	016	021	008					149
30- 44	002	048	032	019	003	014	015	005					138
45- 59	004	040	023	009	008	003	016	006	002				111
60- 74		017	018	007	002	006	008	012	001				71
75- 89	003	016	002	014	003	006	008	004					56
90-104	001	012	011	010	002	005	005	006					52
105-119	009	021	017	012		006	008	008	001				82
120-134	003	028	026	006	001	004	003	006					77
135-149	006	039	032	006	003	002	005	003	001				97
150-164	005	056	030	006	002	003	005						107
165-179	011	041	039	011	002	004	007		001				116
180-194	002	038	052	030	021	011	010	007	001				172
195-209	004	043	090	048	012	018	013	004	001				233
210-224	003	038	050	039	010	015	016	006	002				179
225-239	001	027	039	024	005	010	006	004	002				118
240-254	001	038	023	021	010	009	009	004	004				119
255-269	002	049	032	009	010	011	015	008					136
270-284	003	035	042	004	007	003	007	005	001				107
285-299	001	019	016	001	007	013	013	004					74
300-314	003	020	008	002	008	011	012	004					68
315-329	001	024	009	002	010	010	008	005					69
330-344	006	026	009	003	009	018	022	001					94
345-359	004	053	018	003	002	015	022	006					123
	78		671		147		282		17		0		2682
		818		316		231		122		0		0	

NO. OF SPEEDS EXCEEDING 480 NM/SEC = 9

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 17/01/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	50	100	150	200	250
5	0 0	.	.	.	.	.
15	7 0	*				
25	24 1	*****				
35	83 3	*****				
45	124 5	*****				
55	243 9	*****				
65	201 7	*****				
75	214 8	*****				
85	240 9	*****				
95	149 6	*****				
105	174 6	*****				
115	108 4	*****				
125	126 5	*****				
135	71 3	*****				
145	71 3	*****				
155	48 2	*****				
165	25 1	*****				
175	46 2	*****				
185	21 1	*****				
195	55 2	*****				
205	46 2	*****				
215	82 3	*****				
225	55 2	*****				
235	69 3	*****				
245	61 2	*****				
255	63 2	*****				
265	87 3	*****				
275	50 2	*****				
285	50 2	*****				
295	38 1	*****				
305	25 1	*****				
315	9 0	**				
325	11 0	**				
335	4 0	*				
345	1 0					
355	1 0					
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 9  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2691  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 17/01/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	92	3	*****	.	.	.	.
15	86	3	*****				
25	117	4	*****				
35	86	3	*****				
45	92	3	*****				
55	67	2	*****				
65	48	2	*****				
75	33	1	*****				
85	44	2	*****				
95	34	1	*****				
105	42	2	*****				
115	60	2	*****				
125	45	2	*****				
135	54	2	*****				
145	70	3	*****				
155	79	3	*****				
165	69	3	*****				
175	81	3	*****				
185	112	4	*****				
195	148	5	*****				
205	158	6	*****				
215	121	4	*****				
225	105	4	*****				
235	63	2	*****				
245	85	3	*****				
255	89	3	*****				
265	81	3	*****				
275	86	3	*****				
285	51	2	*****				
295	40	1	*****				
305	48	2	*****				
315	39	1	*****				
325	54	2	*****				
335	55	2	*****				
345	77	3	*****				
355	80	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2691  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 17/01/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	60 .	120 .	180 .	240 .	300 .
6.62	1	0					
6.66	0	0					
6.70	0	0					
6.74	1	0					
6.78	0	0					
6.82	1	0					
6.86	4	0	*				
6.90	10	0	**				
6.94	10	0	**				
6.98	8	0	*				
7.02	27	1	*****				
7.06	48	2	*****				
7.10	24	1	****				
7.14	14	1	**				
7.18	14	1	**				
7.22	32	1	*****				
7.26	47	2	*****				
7.30	41	2	*****				
7.34	57	2	*****				
7.38	188	7	*****				
7.42	230	9	*****				
7.46	96	4	*****				
7.50	177	7	*****				
7.54	124	5	*****				
7.58	158	6	*****				
7.62	108	4	*****				
7.66	64	2	*****				
7.70	77	3	*****				
7.74	147	5	*****				
7.78	167	6	*****				
7.82	77	3	*****				
7.86	65	2	*****				
7.90	126	5	*****				
7.94	232	9	*****				
7.98	117	4	*****				
8.02	119	4	*****				
8.06	42	2	*****				
8.10	28	1	*****				
8.14	0	0					
8.18	0	0					

NO. OF SAMPLES OVER 8.20 = 0

NO. OF SAMPLES UNDER 6.60 = 10

TOTAL NO. OF OBSERVATIONS = 2691

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 30M START DATE 17/01/73

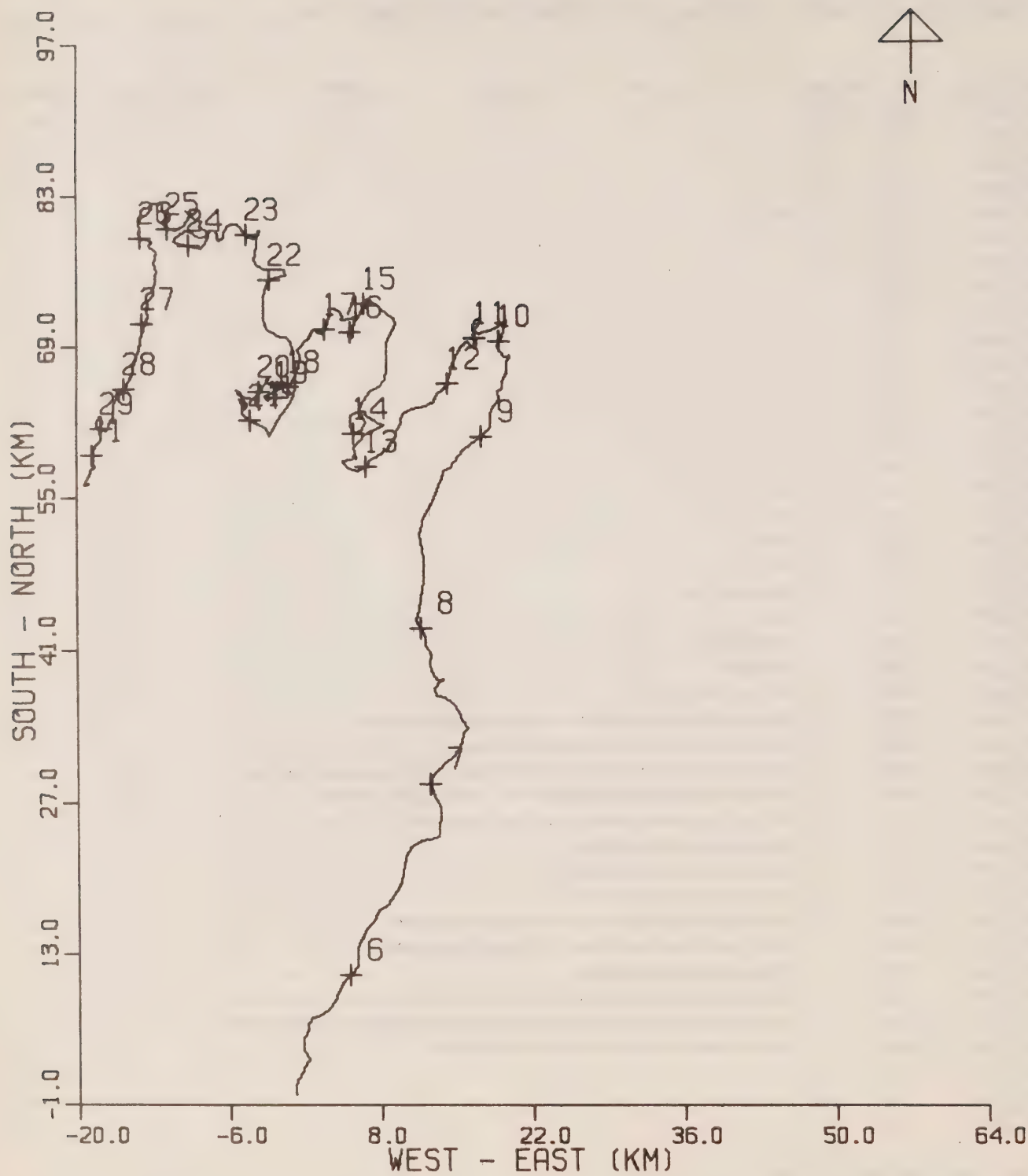
MEDIAN (PPT)	FREQUENCY NO.	PCT	70	140	210	280	350
28.52	0	0	.	.	.	.	.
28.56	0	0					
28.60	0	0					
28.64	5	0	*				
28.68	1	0					
28.72	0	0					
28.76	0	0					
28.80	0	0					
28.84	0	0					
28.88	1	0					
28.92	2	0					
28.96	0	0					
29.00	3	0					
29.04	6	0	*				
29.08	6	0	*				
29.12	4	0	*				
29.16	13	0	**				
29.20	20	1	***				
29.24	47	2	*****				
29.28	14	1	**				
29.32	46	2	*****				
29.36	38	1	*****				
29.40	58	2	*****				
29.44	198	7	*****				
29.48	152	6	*****				
29.52	255	9	*****				
29.56	218	8	*****				
29.60	177	7	*****				
29.64	103	4	*****				
29.68	105	4	*****				
29.72	122	5	*****				
29.76	190	7	*****				
29.80	186	7	*****				
29.84	96	4	*****				
29.88	174	6	*****				
29.92	258	10	*****				
29.96	168	6	*****				
30.00	19	1	***				
30.04	1	0					
30.08	0	0					

NO. OF SAMPLES OVER 30.10 = 0

NO. OF SAMPLES UNDER 28.50 = 5

TOTAL NO. OF OBSERVATIONS = 2691

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 5/ 2/73      ENDING DATE: 1/ 3/73

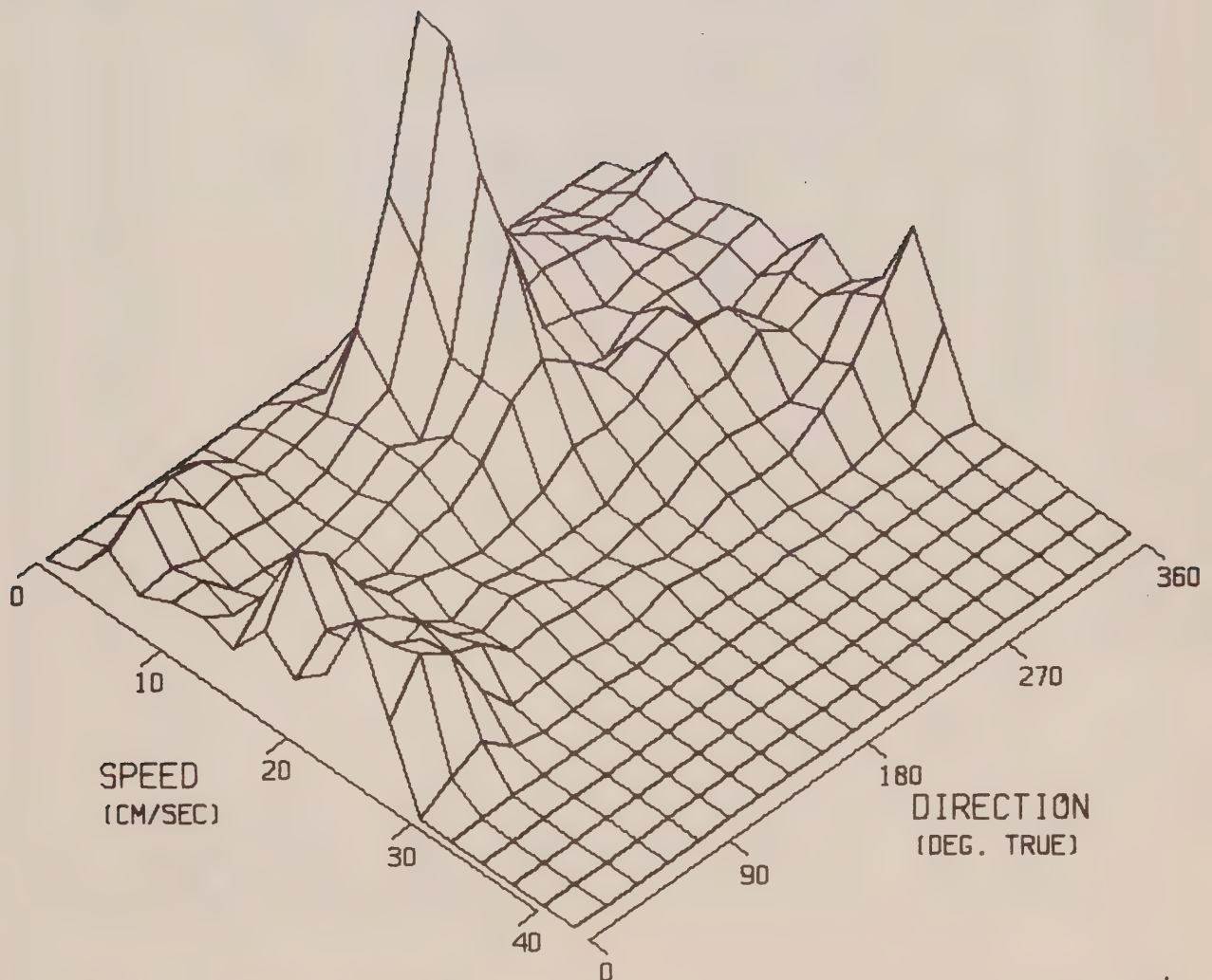


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 5/ 2/73

NO. OF SAMPLES = 3685



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 5/ 2/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

DIR	SPEED												
	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	004	018	022	024	047	032	078	008					233
15- 29	004	032	021	026	050	036	055	017					241
30- 44	007	019	008	021	039	026	051	021					192
45- 59	006	018	003	014	042	022	027	012					144
60- 74	013	014	009	009	020	022	026	002					115
75- 89	009	012	002	006	011	010	013						63
90-104	004	009	005	008	006	006	007						45
105-119	003	010	011	008	005	005	006	001					49
120-134	006	015	010	017	006	011	005	001					71
135-149	006	015	024	013	004	006	006						74
150-164	005	031	022	019	005	001	005	001					89
165-179	009	061	018	031	004		004	001					128
180-194	019	127	079	067	009		006	001					308
195-209	016	192	113	071	014	001	002	002					411
210-224	005	117	077	053	015	008	001						276
225-239	005	072	017	020	017	012	008	001					152
240-254	007	051	025	025	024	015	004						151
255-269	007	035	018	024	025	019	004						132
270-284	007	026	018	028	027	014	006	001					127
285-299	003	026	019	026	032	018	006	001					131
300-314	013	024	013	017	026	016	010						119
315-329	003	015	020	012	018	023	021						112
330-344	003	012	021	023	025	034	031	004					153
345-359	003	023	020	017	025	033	041	001					163
	167		595		496		423		0		0		3679
		974		579		370		75		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 6

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 05/02/73

MEDIAN (MM/S)	FREQUENCY			50	100	150	200	250
	NO.	PCT		.	.	.	.	.
5	0	0						
15	8	0	**					
25	41	1	*****					
35	209	6	*****					
45	229	6	*****					
55	304	8	*****					
65	191	5	*****					
75	159	4	*****					
85	200	5	*****					
95	130	4	*****					
105	159	4	*****					
115	106	3	*****					
125	193	5	*****					
135	101	3	*****					
145	154	4	*****					
155	131	4	*****					
165	107	3	*****					
175	164	4	*****					
185	98	3	*****					
195	127	3	*****					
205	96	3	*****					
215	101	3	*****					
225	89	2	*****					
235	148	4	*****					
245	100	3	*****					
255	89	2	*****					
265	116	3	*****					
275	54	1	*****					
285	49	1	*****					
295	13	0	***					
305	11	0	**					
315	2	0						
325	0	0						
335	0	0						
345	0	0						
355	0	0						
365	0	0						
375	0	0						
385	0	0						
395	0	0						

NO. OF SAMPLES OVER 400 = 6  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3685  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 30M START DATE 05/02/73

MEDIAN (DEG.T)	FREQUENCY NO. PCT	60	120	180	240	300
5	164 4	*****				
15	164 4	*****				
25	156 4	*****				
35	140 4	*****				
45	111 3	*****				
55	86 2	*****				
65	77 2	*****				
75	61 2	*****				
85	35 1	*****				
95	28 1	*****				
105	27 1	*****				
115	40 1	*****				
125	45 1	*****				
135	48 1	*****				
145	53 1	*****				
155	53 1	*****				
165	75 2	*****				
175	94 3	*****				
185	194 5	*****				
195	267 7	*****				
205	277 8	*****				
215	188 5	*****				
225	128 3	*****				
235	89 2	*****				
245	99 3	*****				
255	100 3	*****				
265	81 2	*****				
275	86 2	*****				
285	92 2	*****				
295	83 2	*****				
305	95 3	*****				
315	64 2	*****				
325	81 2	*****				
335	92 2	*****				
345	117 3	*****				
355	95 3	*****				
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3685  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 30M START DATE 05/02/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT.	110	220	330	440	550
6.81	0	0	.	.	.	.	.
6.83	34	1	***				
6.85	59	2	*****				
6.87	51	1	*****				
6.89	45	1	****				
6.91	64	2	*****				
6.93	71	2	*****				
6.95	93	3	*****				
6.97	0	0					
6.99	85	2	*****				
7.01	98	3	*****				
7.03	267	7	*****				
7.05	258	7	*****				
7.07	141	4	*****				
7.09	127	3	*****				
7.11	117	3	*****				
7.13	0	0					
7.15	200	5	*****				
7.17	278	8	*****				
7.19	519	14	*****				
7.21	448	12	*****				
7.23	261	7	*****				
7.25	209	6	*****				
7.27	78	2	*****				
7.29	31	1	***				
7.31	0	0					
7.33	46	1	****				
7.35	45	1	****				
7.37	34	1	***				
7.39	17	0	**				
7.41	5	0					
7.43	0	0					
7.45	2	0					
7.47	0	0					
7.49	2	0					
7.51	0	0					
7.53	0	0					
7.55	0	0					
7.57	0	0					
7.59	0	0					

NO. OF SAMPLES OVER 7.60 = 0

NO. OF SAMPLES UNDER 6.80 = 0

TOTAL NO. OF OBSERVATIONS = 3685

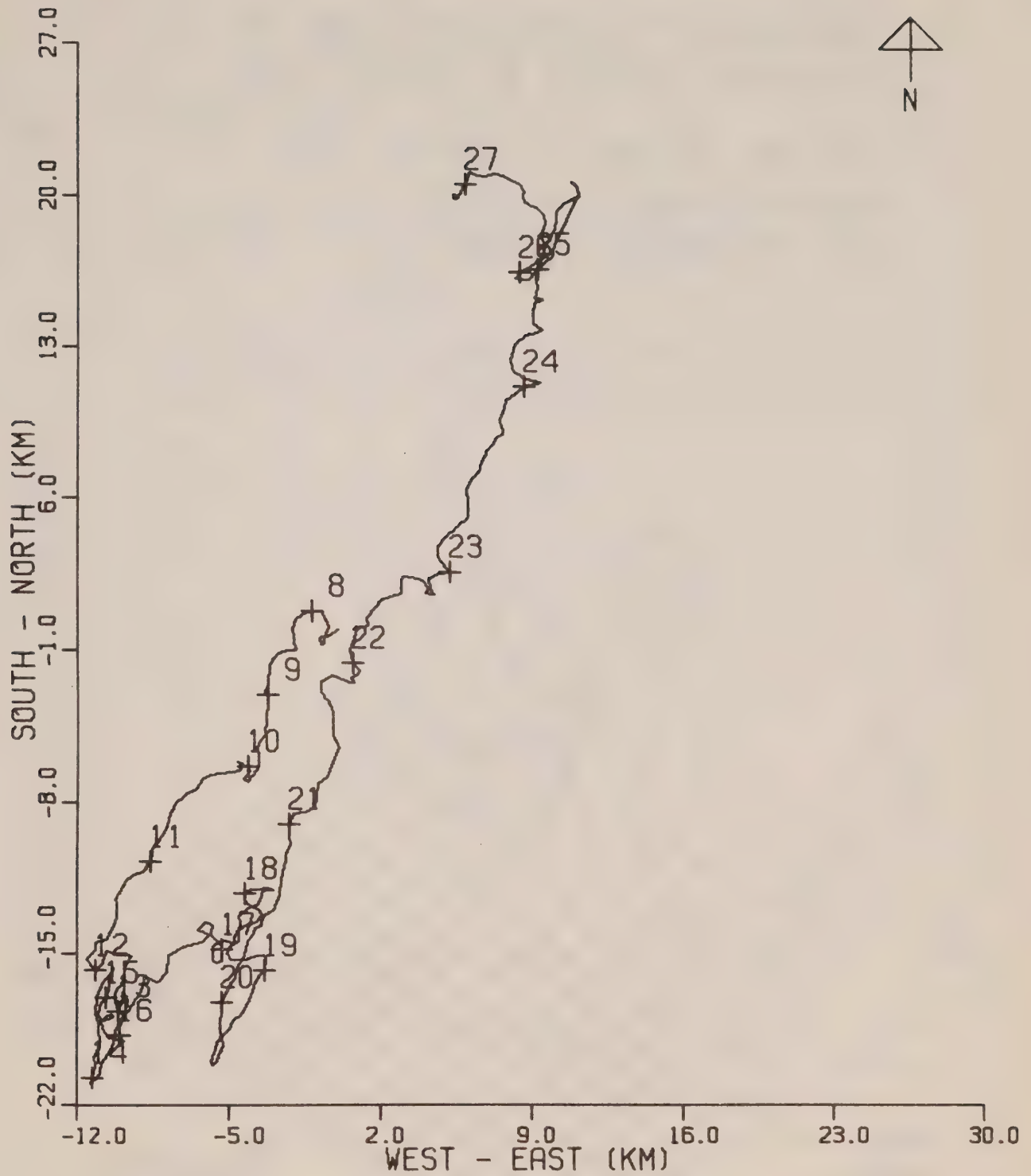
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 30M START DATE 05/02/73

MEDIAN (PPT)	FREQUENCY NO. PCT	100	200	300	400	500
28.91	2 0	.	.	.	.	.
28.93	24 1	**				
28.95	17 0	**				
28.97	7 0	*				
28.99	8 0	*				
29.01	36 1	****				
29.03	19 1	**				
29.05	7 0	*				
29.07	30 1	***				
29.09	27 1	***				
29.11	29 1	***				
29.13	5 0	*				
29.15	47 1	*****				
29.17	47 1	*****				
29.19	11 0	*				
29.21	73 2	*****				
29.23	60 2	*****				
29.25	70 2	*****				
29.27	20 1	**				
29.29	172 5	*****				
29.31	64 2	*****				
29.33	50 1	*****				
29.35	168 5	*****				
29.37	204 6	*****				
29.39	111 3	*****				
29.41	137 4	*****				
29.43	158 4	*****				
29.45	203 6	*****				
29.47	279 8	*****				
29.49	77 2	*****				
29.51	767 21	*****				
29.53	222 6	*****				
29.55	250 7	*****				
29.57	91 2	*****				
29.59	98 3	*****				
29.61	53 1	*****				
29.63	8 0	*				
29.65	20 1	**				
29.67	9 0	*				
29.69	1 0					

NO. OF SAMPLES OVER 29.70 = 1  
 NO. OF SAMPLES UNDER 28.90 = 3  
 TOTAL NO. OF OBSERVATIONS = 3685  
 SAMPLE INTERVAL = 10 MINUTES



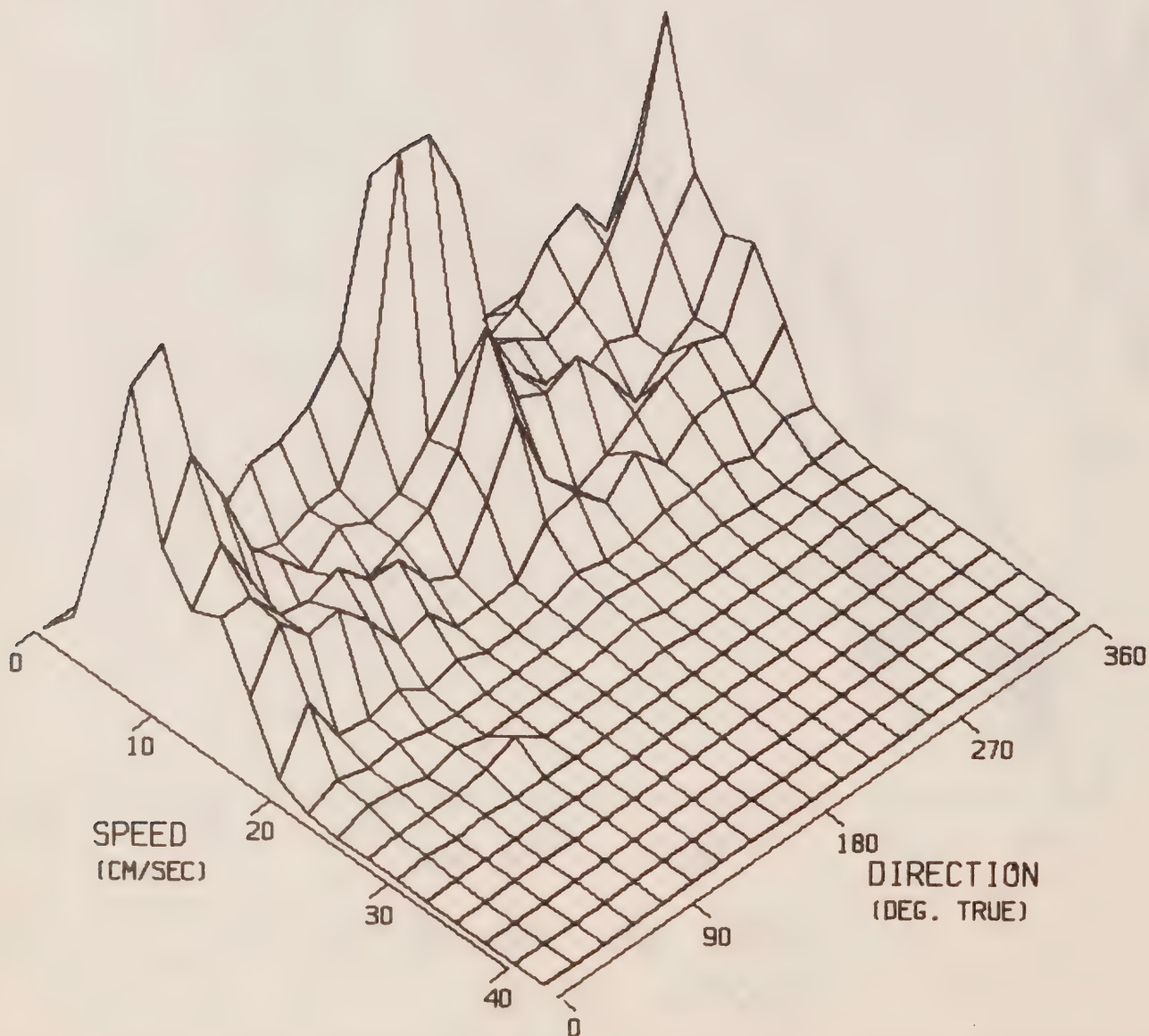
STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 7/ 3/73    ENDING DATE: 27/ 3/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.  
STARTING DATE: 7/ 3/73  
NO. OF SAMPLES = 2872





SIN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 7/ 3/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	004	083	056	063	015	004	001						226
15- 29	004	081	073	038	033	012	003	001					245
30- 44	010	055	055	029	020	002	002						173
45- 59	007	033	032	020	025	002	001						120
60- 74	003	024	029	021	018	002	002	001					100
75- 89	003	023	015	022	018	002	003						86
90-104	004	019	019	018	005	002	002	001					70
105-119	005	027	014	017	010		001	001					75
120-134	005	023	016	015	004								63
135-149	004	028	014	013	001								60
150-164	006	042	015	007	001								71
165-179	012	081	026	015	003								137
180-194	020	117	041	024	004	002	003						211
195-209	011	092	055	055	009	004	001						227
210-224	013	093	045	030	007	002							190
225-239	006	045	031	010	012								104
240-254	006	026	028	023	006	002							91
255-269	001	021	019	012	013	001							67
270-284		026	012	015	006	002							61
285-299	002	021	018	016	009								66
300-314	005	032	013	016	011		001						78
315-329	006	043	018	019	013		001						100
330-344	004	033	027	024	006	003							97
345-359	010	054	045	022	014	004	002						151
	151		716		263		23		0		0		2869
	1122		544		46		4		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 07/03/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT .	60	120	180	240	300
4	0	0	.	.	.	.	.
12	7	0	*				
20	29	1	*****				
28	55	2	*****				
36	139	5	*****				
44	192	7	*****				
52	214	7	*****				
60	267	9	*****				
68	241	8	*****				
76	129	4	*****				
84	181	6	*****				
92	148	5	*****				
100	149	5	*****				
108	118	4	*****				
116	120	4	*****				
124	118	4	*****				
132	111	4	*****				
140	101	4	*****				
148	115	4	*****				
156	99	3	*****				
164	83	3	*****				
172	70	2	*****				
180	38	1	*****				
188	35	1	*****				
196	37	1	*****				
204	19	1	***				
212	8	0	*				
220	12	0	**				
228	4	0	*				
236	5	0	*				
244	1	0					
252	5	0	*				
260	4	0	*				
268	6	0	*				
276	5	0	*				
284	2	0					
292	0	0					
300	2	0					
308	0	0					
316	0	0					

NO. OF SAMPLES OVER 320 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2872  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 07/03/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	151	5	*****				
15	188	7	*****				
25	145	5	*****				
35	122	4	*****				
45	100	3	*****				
55	67	2	*****				
65	72	3	*****				
75	58	2	*****				
85	52	2	*****				
95	52	2	*****				
105	41	1	*****				
115	54	2	*****				
125	45	2	*****				
135	36	1	*****				
145	42	1	*****				
155	49	2	*****				
165	61	2	*****				
175	111	4	*****				
185	134	5	*****				
195	149	5	*****				
205	149	5	*****				
215	135	5	*****				
225	99	3	*****				
235	54	2	*****				
245	54	2	*****				
255	63	2	*****				
265	40	1	*****				
275	43	1	*****				
285	35	1	*****				
295	51	2	*****				
305	53	2	*****				
315	59	2	*****				
325	65	2	*****				
335	63	2	*****				
345	85	3	*****				
355	95	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2872  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 07/03/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	90 .	180 .	270 .	360 .	450 .
6.81	0	0					
6.83	0	0					
6.85	2	0					
6.87	8	0	*				
6.89	25	1	***				
6.91	52	2	*****				
6.93	57	2	*****				
6.95	45	2	*****				
6.97	0	0					
6.99	53	2	*****				
7.01	37	1	****				
7.03	54	2	*****				
7.05	99	3	*****				
7.07	86	3	*****				
7.09	80	3	*****				
7.11	108	4	*****				
7.13	0	0					
7.15	111	4	*****				
7.17	164	6	*****				
7.19	199	7	*****				
7.21	235	8	*****				
7.23	278	10	*****				
7.25	294	10	*****				
7.27	381	13	*****				
7.29	426	15	*****				
7.31	0	0					
7.33	77	3	*****				
7.35	1	0					
7.37	0	0					
7.39	0	0					
7.41	0	0					
7.43	0	0					
7.45	0	0					
7.47	0	0					
7.49	0	0					
7.51	0	0					
7.53	0	0					
7.55	0	0					
7.57	0	0					
7.59	0	0					

NO. OF SAMPLES OVER 7.40 = 0

NO. OF SAMPLES UNDER 6.80 = 0

TOTAL NO. OF OBSERVATIONS = 2872

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 30M. START DATE 07/03/73

MEDIAN (PPT)	FREQUENCY NO. PCT	120	240	360	480	600
28.22	0 0	.	.	.	.	.
28.26	0 0					
28.30	2 0					
28.34	2 0					
28.38	1 0					
28.42	5 0					
28.46	7 0					*
28.50	17 1					*
28.54	9 0					*
28.58	14 0					*
28.62	23 1					**
28.66	21 1					**
28.70	28 1					**
28.74	23 1					**
28.78	12 0					*
28.82	42 1					*****
28.86	30 1					***
28.90	24 1					**
28.94	13 0					*
28.98	27 1					**
29.02	17 1					*
29.06	42 1					*****
29.10	18 1					**
29.14	45 2					*****
29.18	36 1					***
29.22	51 2					*****
29.26	32 1					***
29.30	71 2					*****
29.34	23 1					**
29.38	109 4					*****
29.42	90 3					*****
29.46	184 6					*****
29.50	235 8					*****
29.54	364 13					*****
29.58	711 25					*****
29.62	291 10					*****
29.66	247 9					*****
29.70	6 0					*
29.74	0 0					
29.78	0 0					

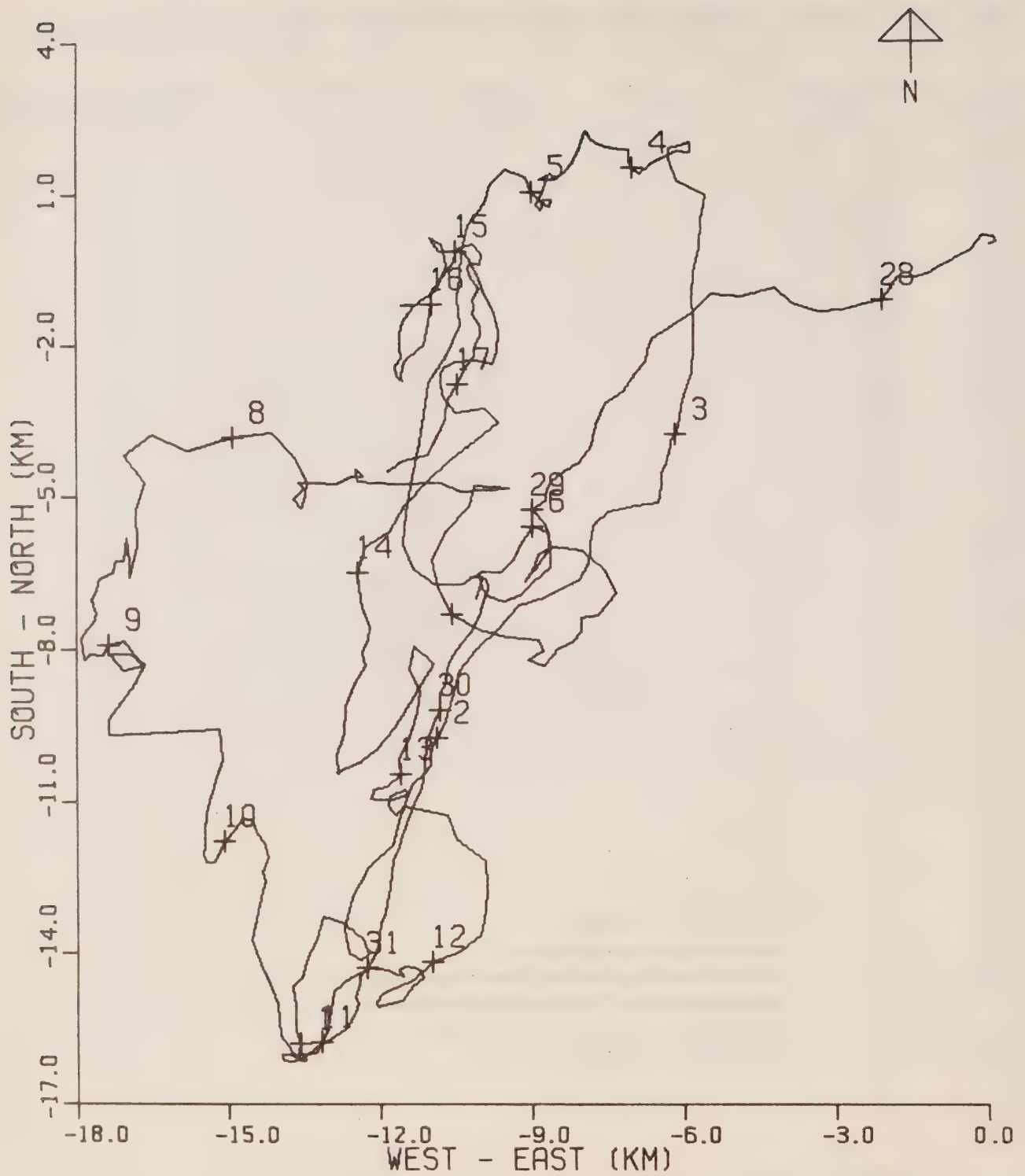
NO. OF SAMPLES OVER 29.80 = 0

NO. OF SAMPLES UNDER 28.20 = 0

TOTAL NO. OF OBSERVATIONS = 2872

SAMPLE INTERVAL = 10 MINUTES





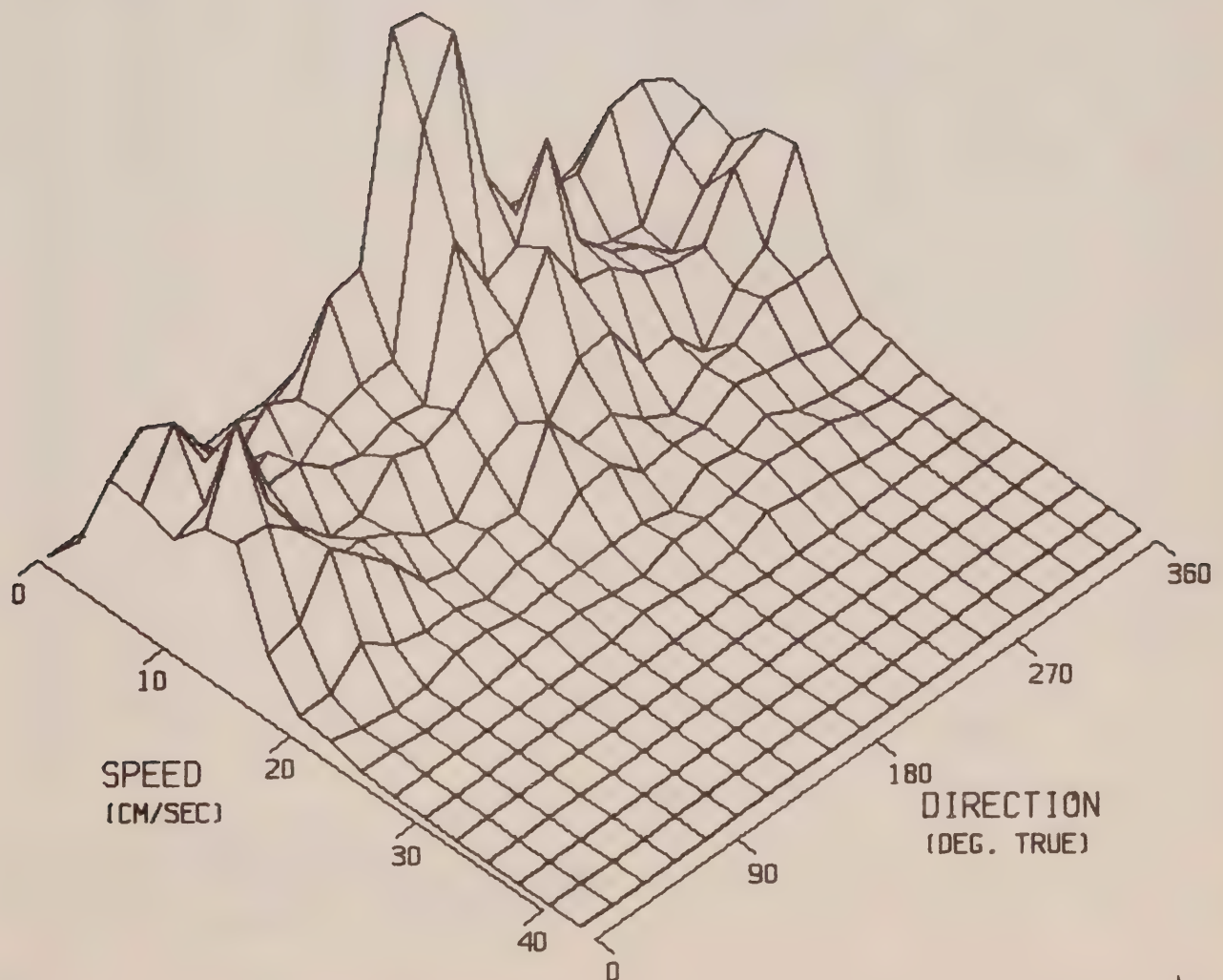
STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 27/ 3/73    ENDING DATE: 17/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.  
STARTING DATE: 27/ 3/73  
NO. OF SAMPLES = 3000



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 27/ 3/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	001	054	054	043	015	001	001						169
15- 29	003	047	040	050	014	001							155
30- 44	005	037	056	038	024	002							162
45- 59	001	030	026	027	033	004							121
60- 74	011	018	026	013	009								77
75- 89	002	019	028	020	012	003							84
90-104	001	021	018	011	005	003							59
105-119	007	024	023	006	005	001	001						67
120-134	003	026	016	017		003	002						67
135-149	011	041	022	007	007	001	002						91
150-164	015	036	021	015	007	002	002	001					99
165-179	012	057	048	021	011	003							152
180-194	014	146	052	028	023	009	001						273
195-209	017	116	048	022	012	002	003	001					221
210-224	016	070	054	038	014		002						194
225-239	009	050	055	038	007	005	007						171
240-254	007	032	049	025	004	007	004	001					129
255-269	012	028	035	021	002	004	007	001					110
270-284	010	026	026	019	009	009	005						104
285-299	009	027	018	011	007	005	007						84
300-314	005	028	015	008	011	003	003						73
315-329	014	031	012	018	015	003	001						94
330-344	014	031	029	023	011		001						109
345-359	013	041	021	043	011	002	001						132
	212		792		268		50		0		0		2997
	1036		562		73		4		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 27/03/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	60	120	180	240	300
4	0 0	.	.	.	.	.
12	3 0	*				
20	27 1	*****				
28	107 4	*****				
36	166 6	*****				
44	219 7	*****				
52	223 7	*****				
60	231 8	*****				
68	199 7	*****				
76	73 2	*****				
84	150 5	*****				
92	171 6	*****				
100	159 5	*****				
108	150 5	*****				
116	162 5	*****				
124	147 5	*****				
132	139 5	*****				
140	108 4	*****				
148	78 3	*****				
156	90 3	*****				
164	86 3	*****				
172	49 2	*****				
180	59 2	*****				
188	39 1	*****				
196	35 1	*****				
204	20 1	***				
212	27 1	*****				
220	12 0	**				
228	7 0	*				
236	16 1	***				
244	7 0	*				
252	7 0	*				
260	13 0	**				
268	7 0	*				
276	7 0	*				
284	3 0	*				
292	1 0					
300	0 0					
308	0 0					
316	0 0					

NO. OF SAMPLES OVER 320 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 27/03/73

MEDIAN (DEG.T)	FREQUENCY NO. PCT	50	100	150	200	250
5	108 4	*****	*****	*****	*****	*****
15	128 4	*****	*****	*****	*****	*****
25	98 3	*****	*****	*****	*****	*****
35	107 4	*****	*****	*****	*****	*****
45	101 3	*****	*****	*****	*****	*****
55	71 2	*****	*****	*****	*****	*****
65	57 2	*****	*****	*****	*****	*****
75	49 2	*****	*****	*****	*****	*****
85	54 2	*****	*****	*****	*****	*****
95	37 1	*****	*****	*****	*****	*****
105	48 2	*****	*****	*****	*****	*****
115	44 1	*****	*****	*****	*****	*****
125	42 1	*****	*****	*****	*****	*****
135	53 2	*****	*****	*****	*****	*****
145	65 2	*****	*****	*****	*****	*****
155	63 2	*****	*****	*****	*****	*****
165	74 2	*****	*****	*****	*****	*****
175	120 4	*****	*****	*****	*****	*****
185	192 6	*****	*****	*****	*****	*****
195	157 5	*****	*****	*****	*****	*****
205	144 5	*****	*****	*****	*****	*****
215	141 5	*****	*****	*****	*****	*****
225	104 3	*****	*****	*****	*****	*****
235	111 4	*****	*****	*****	*****	*****
245	90 3	*****	*****	*****	*****	*****
255	75 3	*****	*****	*****	*****	*****
265	74 2	*****	*****	*****	*****	*****
275	79 3	*****	*****	*****	*****	*****
285	55 2	*****	*****	*****	*****	*****
295	53 2	*****	*****	*****	*****	*****
305	52 2	*****	*****	*****	*****	*****
315	54 2	*****	*****	*****	*****	*****
325	63 2	*****	*****	*****	*****	*****
335	77 3	*****	*****	*****	*****	*****
345	82 3	*****	*****	*****	*****	*****
355	78 3	*****	*****	*****	*****	*****
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 30M START DATE 27/03/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	140 .	280 .	420 .	560 .	700 .
6.91	0	0					
6.93	0	0					
6.95	0	0					
6.97	0	0					
6.99	0	0					
7.01	0	0					
7.03	0	0					
7.05	0	0					
7.07	10	0	*				
7.09	81	3	*****				
7.11	197	7	*****				
7.13	0	0					
7.15	346	12	*****				
7.17	236	8	*****				
7.19	438	15	*****				
7.21	797	27	*****				
7.23	497	17	*****				
7.25	181	6	*****				
7.27	107	4	*****				
7.29	64	2	*****				
7.31	0	0					
7.33	37	1	***				
7.35	5	0					
7.37	1	0					
7.39	0	0					
7.41	0	0					
7.43	0	0					
7.45	0	0					
7.47	0	0					
7.49	0	0					
7.51	1	0					
7.53	0	0					
7.55	0	0					
7.57	0	0					
7.59	0	0					
7.61	0	0					
7.63	0	0					
7.65	0	0					
7.67	0	0					
7.69	0	0					

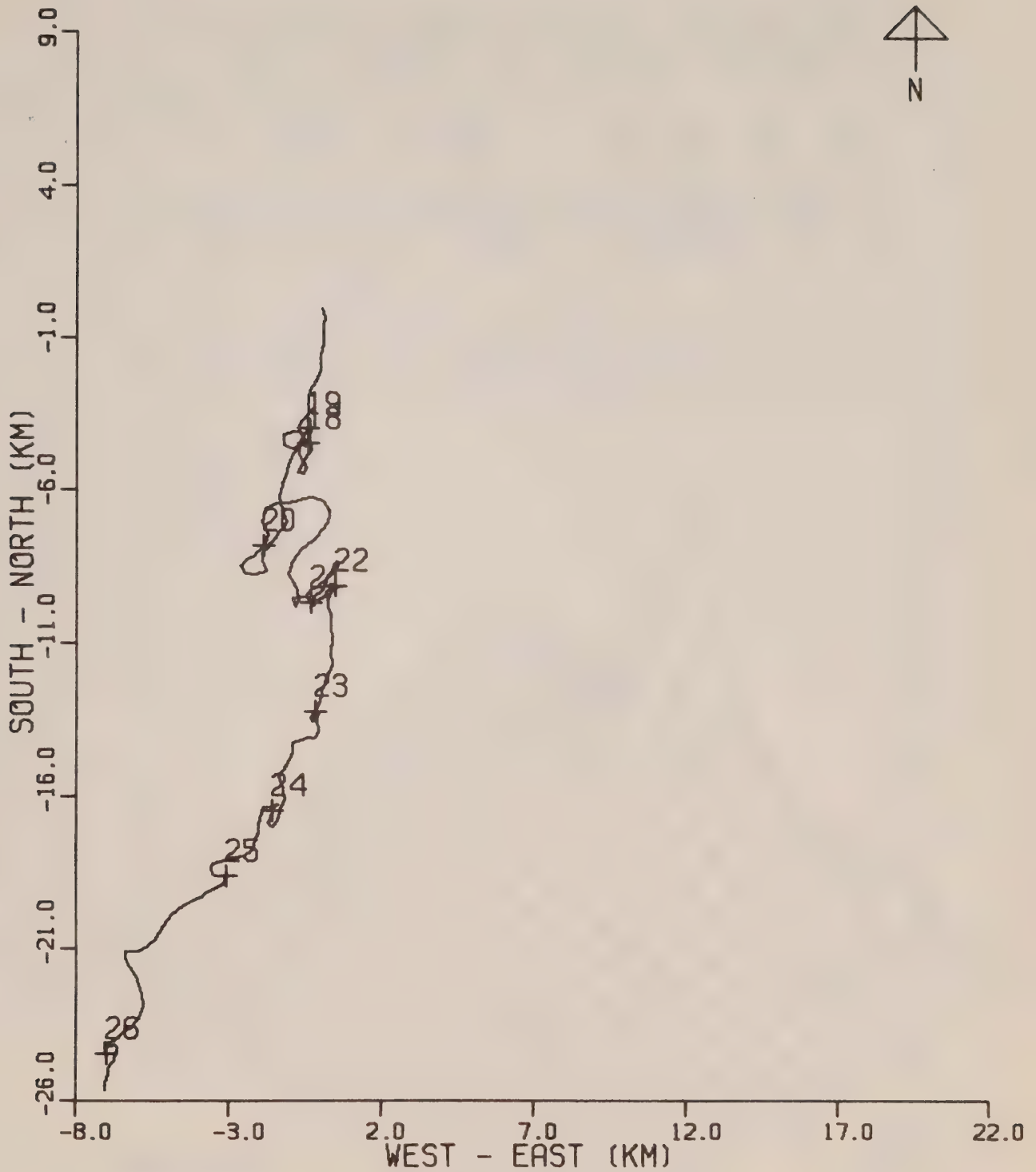
NO. OF SAMPLES OVER 7.70 = 2  
 NO. OF SAMPLES UNDER 6.90 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 30M START DATE 27/03/73

MEDIAN (PPT)	FREQUENCY		100	200	300	400	500
	NO.	PCT	.	.	.	.	.
28.96	4	0	.	.	.	.	.
28.98	0	0					
29.00	0	0					
29.02	8	0	*				
29.04	5	0	*				
29.06	0	0					
29.08	8	0	*				
29.10	38	1	****				
29.12	13	0	*				
29.14	61	2	*****				
29.16	32	1	***				
29.18	0	0					
29.20	41	1	****				
29.22	96	3	*****				
29.24	18	1	**				
29.26	168	6	*****				
29.28	0	0					
29.30	33	1	***				
29.32	56	2	*****				
29.34	118	4	*****				
29.36	0	0					
29.38	46	2	*****				
29.40	150	5	*****				
29.42	0	0					
29.44	372	12	*****				
29.46	21	1	**				
29.48	20	1	**				
29.50	596	20	*****				
29.52	104	3	*****				
29.54	316	11	*****				
29.56	0	0					
29.58	137	5	*****				
29.60	125	4	*****				
29.62	219	7	*****				
29.64	72	2	*****				
29.66	74	2	*****				
29.68	33	1	***				
29.70	5	0	*				
29.72	4	0					
29.74	0	0					

NO. OF SAMPLES OVER 29.75 = 5  
 NO. OF SAMPLES UNDER 28.95 = 2  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

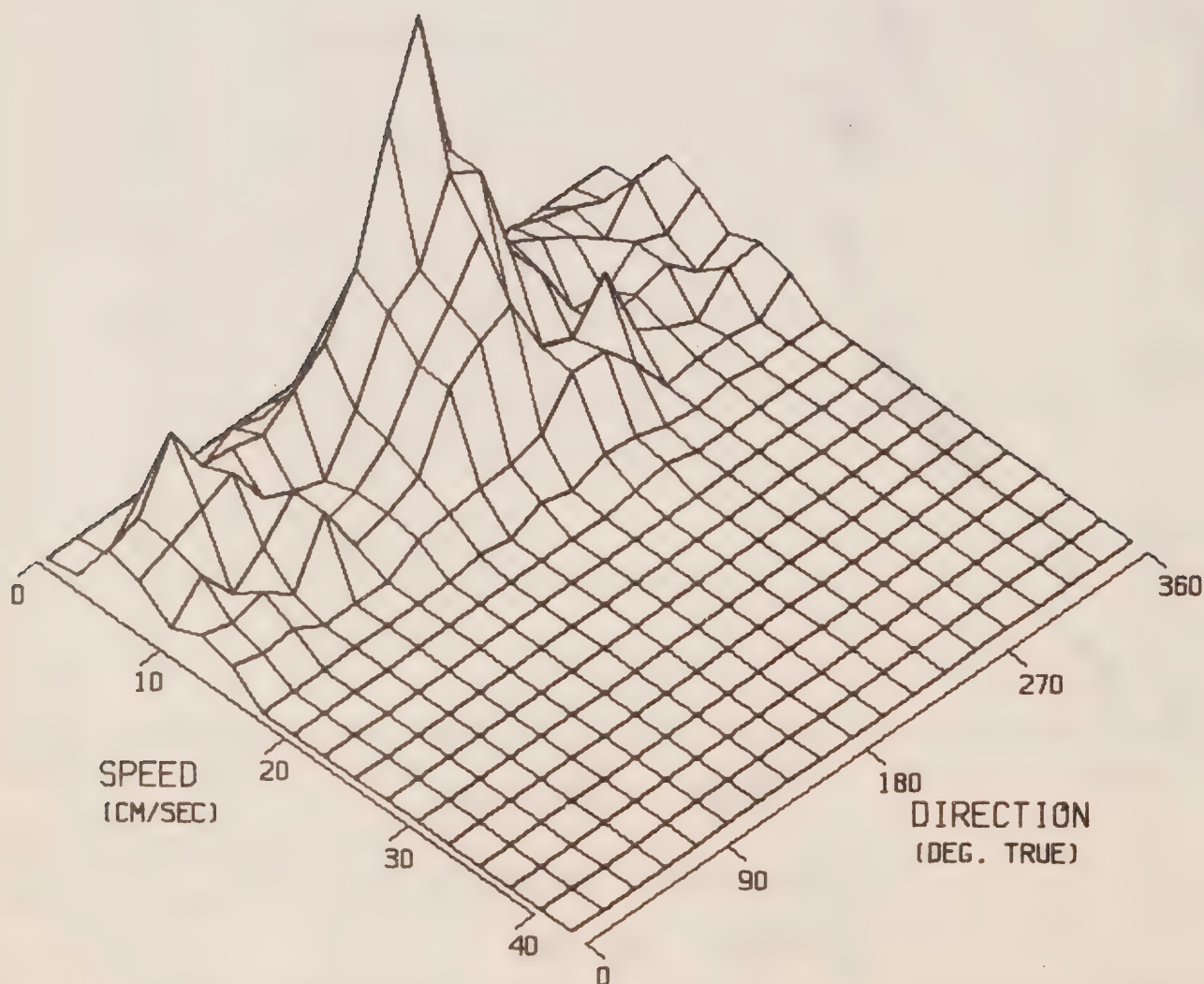
STARTING DATE: 17/ 4/73    ENDING DATE: 26/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 17/ 4/73

NO. OF SAMPLES = 1332



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 17/ 4/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

DIR	000 TO	040 TO	080 TO	120 TO	160 TO	200 TO	240 TO	280 TO	320 TO	360 TO	400 TO	440 TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		014	019	003									36
15- 29	001	020	009	004									34
30- 44	005	028	008	005									46
45- 59	006	025	006	004									41
60- 74	004	014	016	002									36
75- 89	003	014	018	005									40
90-104	006	013	009										28
105-119	005	009	002	003									19
120-134	007	015	009	006									37
135-149	004	028	013	007									52
150-164	011	029	028	014	001								83
165-179	013	055	035	016									119
180-194	017	075	046	018	003								159
195-209	011	075	044	017	001								148
210-224	006	073	025	023	005								132
225-239	008	041	016	019	002								86
240-254	002	018	016	023	003								62
255-269	005	019	011	018	001								54
270-284	007	006	004	004									21
285-299	007	017	004	002									30
300-314	004	002	008		001								15
315-329	004	007	007	001									19
330-344	002	011	003	002									18
345-359	001	008	006	002									17
	139		362		17		0		0		0		1332
		616		198		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 17/04/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	40	80	120	160	200
3	0	0	.	.	.	.	.
9	0	0					
15	4	0	*				
21	26	2	*****				
27	30	2	*****				
33	79	6	*****				
39	58	4	*****				
45	134	10	*****				
51	81	6	*****				
57	135	10	*****				
63	66	5	*****				
69	101	8	*****				
75	41	3	*****				
81	34	3	*****				
87	83	6	*****				
93	32	2	*****				
99	55	4	*****				
105	29	2	*****				
111	85	6	*****				
117	44	3	*****				
123	67	5	*****				
129	24	2	*****				
135	48	4	*****				
141	25	2	*****				
147	29	2	*****				
153	5	0	*				
159	0	0					
165	10	1	***				
171	2	0	*				
177	1	0					
183	0	0					
189	2	0	*				
195	0	0					
201	2	0	*				
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1332  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 30M START DATE 17/04/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	30	60	90	120	150
5	27	2	*****				
15	21	2	*****				
25	23	2	*****				
35	36	3	*****				
45	26	2	*****				
55	24	2	*****				
65	23	2	*****				
75	31	2	*****				
85	24	2	*****				
95	19	1	*****				
105	13	1	****				
115	15	1	*****				
125	26	2	*****				
135	24	2	*****				
145	43	3	*****				
155	55	4	*****				
165	72	5	*****				
175	73	5	*****				
185	105	8	*****				
195	108	8	*****				
205	110	8	*****				
215	85	6	*****				
225	70	5	*****				
235	47	4	*****				
245	40	3	*****				
255	38	3	*****				
265	36	3	*****				
275	12	1	****				
285	23	2	*****				
295	15	1	*****				
305	11	1	****				
315	12	1	****				
325	11	1	****				
335	10	1	***				
345	14	1	*****				
355	10	1	***				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1332  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 17/04/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	100 .	200 .	300 .	400 .	500 .
6.91	0	0					
6.93	0	0					
6.95	0	0					
6.97	0	0					
6.99	0	0					
7.01	0	0					
7.03	0	0					
7.05	0	0					
7.07	0	0					
7.09	0	0					
7.11	3	0					
7.13	0	0					
7.15	36	3	*****				
7.17	134	10	*****				
7.19	227	17	*****				
7.21	336	25	*****				
7.23	271	20	*****				
7.25	239	18	*****				
7.27	86	6	*****				
7.29	0	0					
7.31	0	0					
7.33	0	0					
7.35	0	0					
7.37	0	0					
7.39	0	0					
7.41	0	0					
7.43	0	0					
7.45	0	0					
7.47	0	0					
7.49	0	0					
7.51	0	0					
7.53	0	0					
7.55	0	0					
7.57	0	0					
7.59	0	0					
7.61	0	0					
7.63	0	0					
7.65	0	0					
7.67	0	0					
7.69	0	0					

NO. OF SAMPLES OVER 7.70 = 0

NO. OF SAMPLES UNDER 6.90 = 0

TOTAL NO. OF OBSERVATIONS = 1332

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 30M START DATE 17/04/73

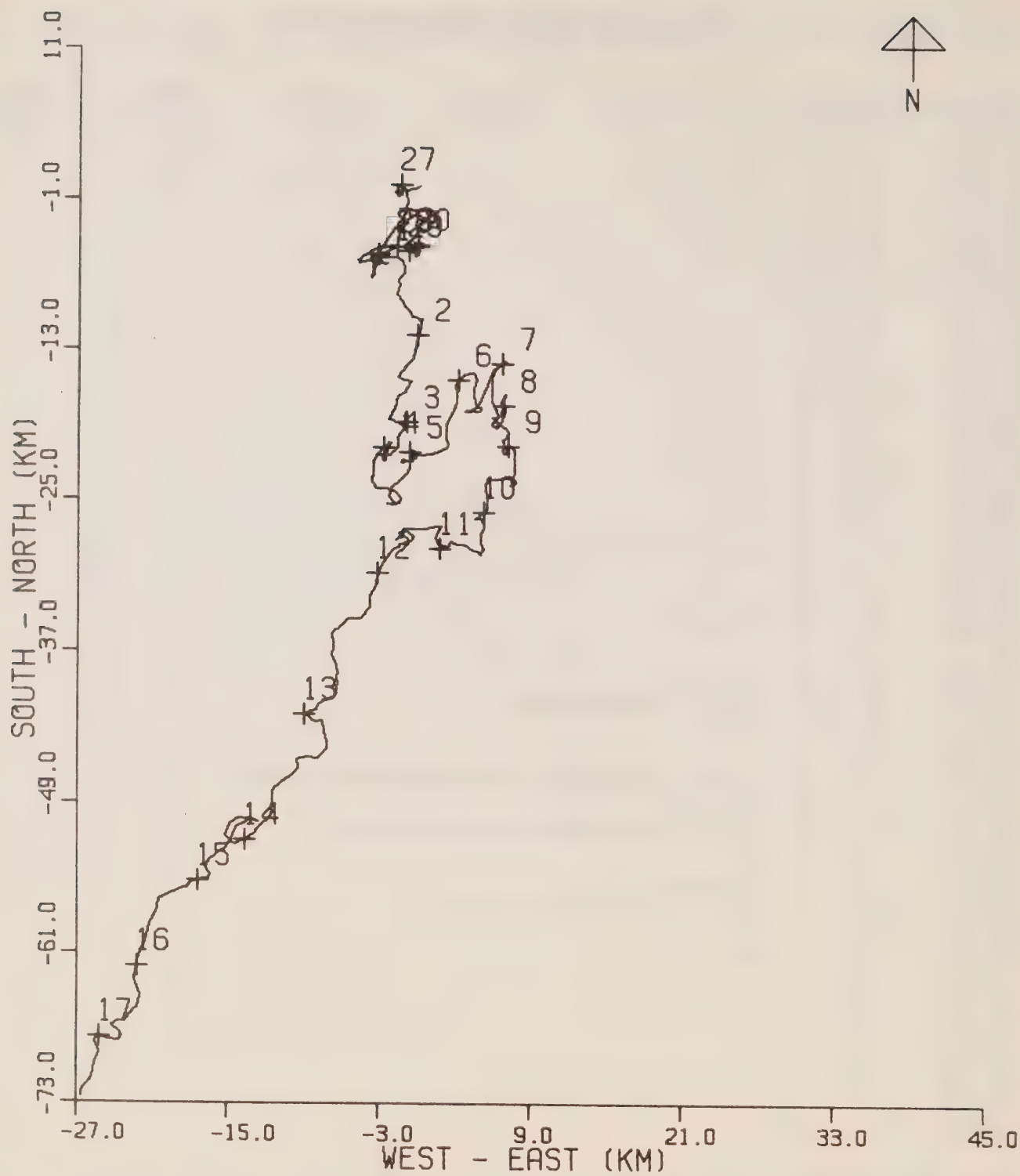
MEDIAN (PPT)	FREQUENCY NO. PCT	80	160	240	320	400
29.01	0 0	.	.	.	.	.
29.03	0 0					
29.05	0 0					
29.07	0 0					
29.09	0 0					
29.11	0 0					
29.13	1 0					
29.15	0 0					
29.17	0 0					
29.19	6 0	*				
29.21	3 0					
29.23	0 0					
29.25	3 0					
29.27	25 2	***				
29.29	1 0					
29.31	4 0	*				
29.33	84 6	*****				
29.35	0 0					
29.37	82 6	*****				
29.39	51 4	*****				
29.41	0 0					
29.43	52 4	*****				
29.45	137 10	*****				
29.47	28 2	*****				
29.49	0 0					
29.51	283 21	*****				
29.53	54 4	*****				
29.55	233 17	*****				
29.57	4 0	*				
29.59	70 5	*****				
29.61	184 14	*****				
29.63	10 1	*				
29.65	16 1	**				
29.67	1 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					

NO. OF SAMPLES OVER 29.80 = 0

NO. OF SAMPLES UNDER 29.00 = 0

TOTAL NO. OF OBSERVATIONS = 1332

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 26/ 4/73    ENDING DATE: 17/ 5/73

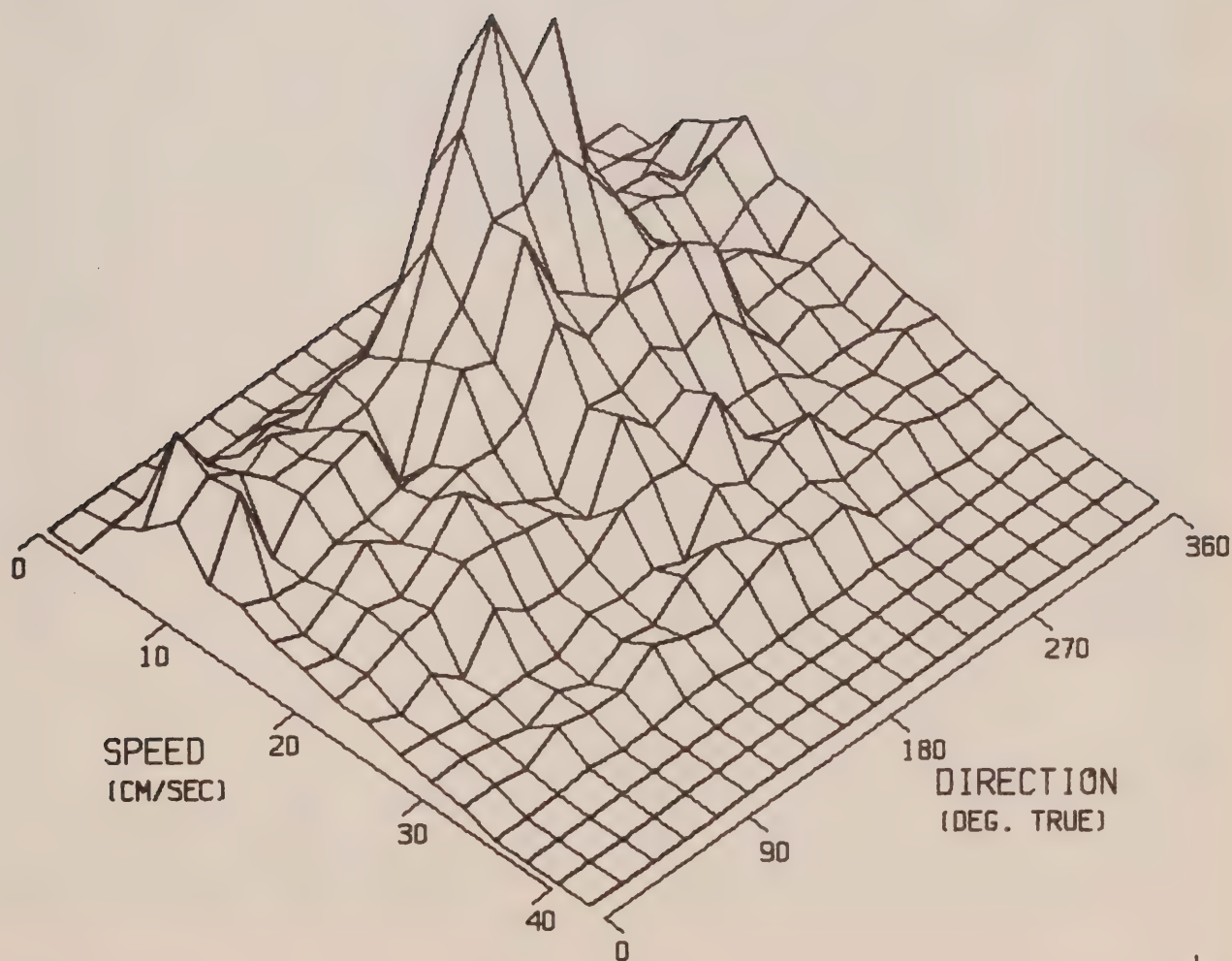


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 26/ 4/73

NO. OF SAMPLES = 2990



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 26/ 4/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		021	023	007	011	007	007	002					78
15- 29	001	018	042	016	005	008	003	004	001				98
30- 44		015	025	016	012	013	007	003	001				92
45- 59	001	006	021	006	014	007	001	003					59
60- 74	002	016	021	023	015	012	003	003	004				99
75- 89		012	020	011	015	020	013	002	001				94
90-104		008	022	019	022	017	004	001	001				94
105-119		008	014	014	014	022	007	004	003				86
120-134	001	019	029	015	023	011	005	007	003				113
135-149		007	027	038	015	010	007	006	004				114
150-164		019	043	028	016	009	012	004	002				133
165-179		025	061	041	027	010	013	011	002				190
180-194		038	094	054	023	030	008	011	005				263
195-209		027	098	036	025	023	020	013	004				246
210-224		028	068	044	037	023	021	012	003				236
225-239		022	072	036	027	013	012	010	004				196
240-254	001	023	068	030	026	017	016	013	003				197
255-269		014	040	039	035	013	012	006	001				160
270-284		012	028	018	024	012	007	009					110
285-299		007	022	016	012	009	005	006					77
300-314		006	019	015	006	004	009	006					65
315-329	003	005	017	010	011	003	004	002					55
330-344	001	004	017	008	006	003	005	004					48
345-359	001	013	022	015	008	009	009	005	002				84
	11		913		429		210		44		0		2987
		373		555		305		147		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 26/04/73

MEDIAN (MM/S)	FREQUENCY NO. PCT .	50 .	100 .	150 .	200 .	250 .
5	0 0					
15	0 0					
25	3 0	*				
35	12 0	**				
45	30 1	*****				
55	99 3	*****				
65	100 3	*****				
75	140 5	*****				
85	266 9	*****				
95	194 6	*****				
105	271 9	*****				
115	182 6	*****				
125	187 6	*****				
135	102 3	*****				
145	171 6	*****				
155	95 3	*****				
165	83 3	*****				
175	146 5	*****				
185	85 3	*****				
195	115 4	*****				
205	82 3	*****				
215	103 3	*****				
225	60 2	*****				
235	90 3	*****				
245	47 2	*****				
255	43 1	*****				
265	57 2	*****				
275	33 1	*****				
285	44 1	*****				
295	29 1	*****				
305	42 1	*****				
315	32 1	*****				
325	29 1	*****				
335	12 0	**				
345	2 0					
355	1 0					
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2990  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 26/04/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	57	2	*****	.	.	.	.
15	64	2	*****				
25	70	2	*****				
35	65	2	*****				
45	39	1	*****				
55	45	2	*****				
65	63	2	*****				
75	56	2	*****				
85	69	2	*****				
95	66	2	*****				
105	63	2	*****				
115	48	2	*****				
125	77	3	*****				
135	76	3	*****				
145	78	3	*****				
155	87	3	*****				
165	106	4	*****				
175	144	5	*****				
185	178	6	*****				
195	154	5	*****				
205	174	6	*****				
215	159	5	*****				
225	140	5	*****				
235	136	5	*****				
245	138	5	*****				
255	102	3	*****				
265	104	3	*****				
275	85	3	*****				
285	51	2	*****				
295	47	2	*****				
305	41	1	*****				
315	42	1	*****				
325	37	1	*****				
335	35	1	*****				
345	45	2	*****				
355	49	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2990  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HUWE SOUND HS-55 DEPTH 30M START DATE 26/04/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	120	240	360	480	600
7.01	0	0	.	.	.	.	.
7.03	0	0					
7.05	0	0					
7.07	0	0					
7.09	0	0					
7.11	0	0					
7.13	0	0					
7.15	0	0					
7.17	0	0					
7.19	114	4	*****				
7.21	196	7	*****				
7.23	598	20	*****				
7.25	425	14	*****				
7.27	438	15	*****				
7.29	269	9	*****				
7.31	0	0					
7.33	184	6	*****				
7.35	169	6	*****				
7.37	240	8	*****				
7.39	239	8	*****				
7.41	90	3	*****				
7.43	27	1	**				
7.45	0	0					
7.47	0	0					
7.49	0	0					
7.51	0	0					
7.53	0	0					
7.55	0	0					
7.57	0	0					
7.59	0	0					
7.61	0	0					
7.63	0	0					
7.65	0	0					
7.67	0	0					
7.69	0	0					
7.71	0	0					
7.73	0	0					
7.75	0	0					
7.77	0	0					
7.79	0	0					

NO. OF SAMPLES OVER 7.80 = 1  
 NO. OF SAMPLES UNDER 7.00 = 0  
 TOTAL NO. OF OBSERVATIONS = 2990  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF SALINITY

HOWE SOUND HS=55 DEPTH 30M START DATE 26/04/75

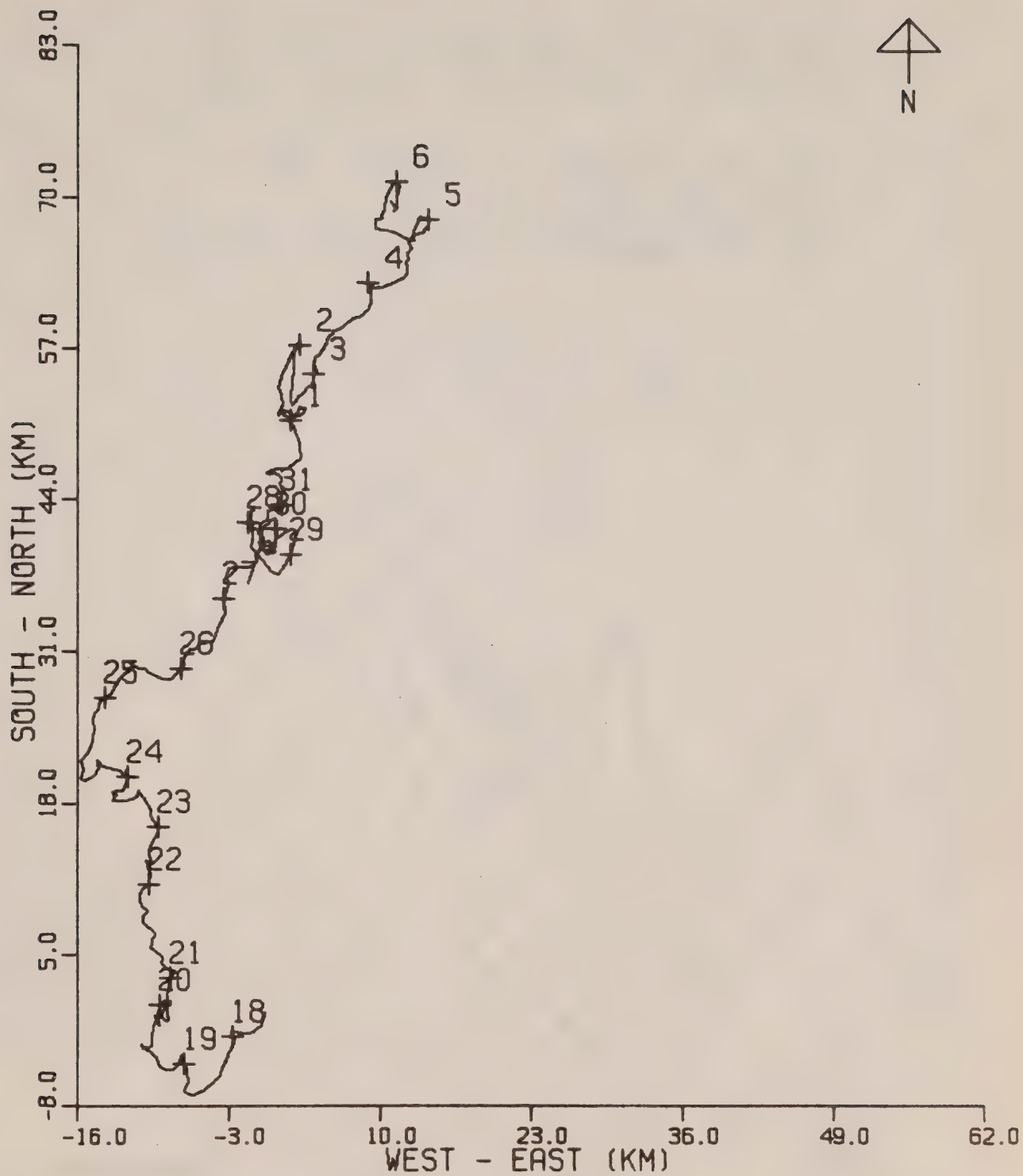
MEDIAN (PPT)	FREQNCY NO.	PCT	100	200	300	400	500
29.11	5	0	*				
29.13	0	0					
29.15	1	0					
29.17	6	0	*				
29.19	7	0	*				
29.21	2	0					
29.23	2	0					
29.25	1	0					
29.27	17	1	**				
29.29	19	1	**				
29.31	17	1	**				
29.33	98	3	*****				
29.35	13	0	*				
29.37	81	3	*****				
29.39	0	0					
29.41	143	5	*****				
29.43	109	4	*****				
29.45	20	1	**				
29.47	286	10	*****				
29.49	0	0					
29.51	58	2	*****				
29.53	199	7	*****				
29.55	86	3	*****				
29.57	5	0	*				
29.59	204	7	*****				
29.61	190	6	*****				
29.63	1	0					
29.65	453	15	*****				
29.67	65	2	*****				
29.69	160	5	*****				
29.71	108	4	*****				
29.73	215	7	*****				
29.75	183	6	*****				
29.77	2	0					
29.79	199	7	*****				
29.81	21	1	**				
29.83	10	0	*				
29.85	0	0					
29.87	0	0					
29.89	0	0					

NO. OF SAMPLES OVER 29.90 = 0

NO. OF SAMPLES UNDER 29.10 = 4

TOTAL NO. OF OBSERVATIONS = 2990

SAMPLE INTERVAL = 10 MINUTES



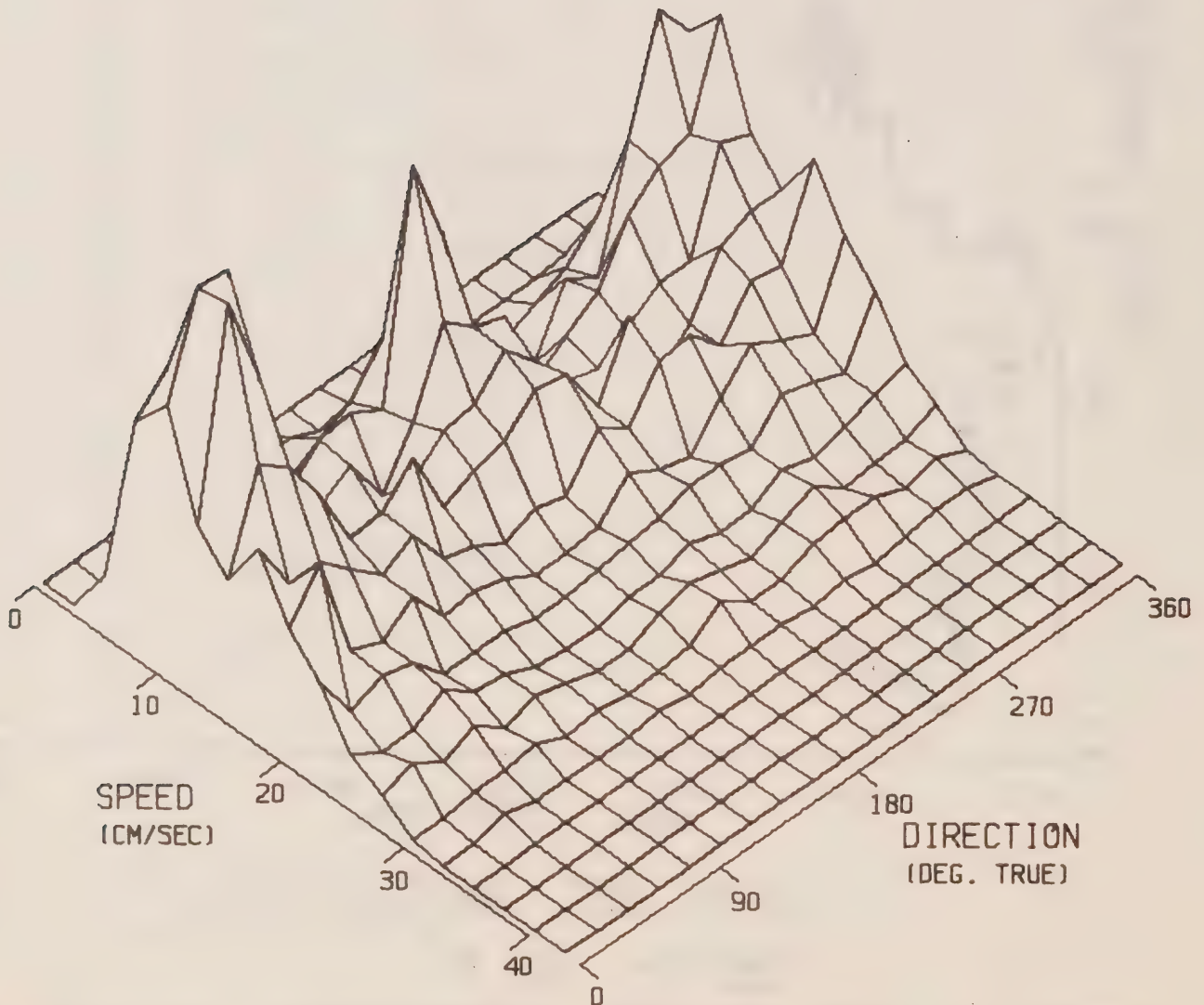
STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 17/ 5/73    ENDING DATE: 6/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.  
STARTING DATE: 17/ 5/73  
NO. OF SAMPLES = 2891



STN. NO. HS-58 DEPTH 30 M.

STARTING DATE: 17/ 5/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO	040 TO	080 TO	120 TO	160 TO	200 TO	240 TO	280 TO	320 TO	360 TO	400 TO	440 TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		035	079	041	032	034	013	002					
15- 29		026	102	079	038	018	010	001					236
30- 44	001	021	078	061	021	012	006	005					274
45- 59		007	082	046	031	013	009	002					205
60- 74		014	035	030	022	013	010	004					190
75- 89	001	009	024	018	015	009	003	003					128
90-104	001	013	020	021	017	005	007	001					82
105-119	003	010	012	016	011	008	003	001					85
120-134	001	015	023	024	013	002	001						64
135-149	003	010	013	015	012	001		001					79
150-164		020	018	018	001	003							55
165-179	001	025	036	025	007	002	001		001				60
180-194		053	042	025	005	004	004	003					98
195-209		021	042	027	005	006	003	008					136
210-224		018	033	022	018	009	005	003	001				112
225-239		003	011	021	009	007	001	002					109
240-254		003	008	017	010	004	003	001					54
255-269		002	009	024	020	006	004	003	001				46
270-284		005	019	016	019	008	007	007					69
285-299		004	026	013	018	009	002	006	001				81
300-314		019	032	018	022	023	004	004					79
315-329	001	026	046	027	022	013	009	003	001				122
330-344		047	044	044	024	009	006	003	001				148
345-359		025	073	037	034	016	009	004					178
													198
	12	907		426		120		6		0			2888
	431		685		234		67		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 17/05/73

MEDIAN (MM/S)	FREQUENCY NO. PCT .	50 .	100 .	150 .	200 .	250 .
4	0 0					
12	0 0					
20	0 0					
28	6 0	*				
36	10 0	**				
44	32 1	*****				
52	67 2	*****				
60	118 4	*****				
68	134 5	*****				
76	76 3	*****				
84	191 7	*****				
92	186 6	*****				
100	173 6	*****				
108	181 6	*****				
116	176 6	*****				
124	134 5	*****				
132	129 4	*****				
140	150 5	*****				
148	147 5	*****				
156	125 4	*****				
164	94 3	*****				
172	84 3	*****				
180	97 3	*****				
188	85 3	*****				
196	66 2	*****				
204	67 2	*****				
212	60 2	*****				
220	54 2	*****				
228	42 1	*****				
236	22 1	****				
244	12 0	**				
252	27 1	*****				
260	28 1	*****				
268	23 1	*****				
276	19 1	****				
284	22 1	****				
292	12 0	**				
300	17 1	***				
308	10 0	**				
316	6 0	*				

NO. OF SAMPLES OVER 320 = 9  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2891  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 30M START DATE 17/05/73

MEDIAN (DEG.T)	FREQINCY NO.	PCT	50	100	150	200	250
5	165	6	*****				
15	161	6	*****				
25	198	7	*****				
35	143	5	*****				
45	150	5	*****				
55	98	3	*****				
65	88	3	*****				
75	64	2	*****				
85	61	2	*****				
95	52	2	*****				
105	50	2	*****				
115	42	1	*****				
125	59	2	*****				
135	35	1	*****				
145	40	1	*****				
155	42	1	*****				
165	41	1	*****				
175	82	3	*****				
185	90	3	*****				
195	94	3	*****				
205	56	2	*****				
215	74	3	*****				
225	55	2	*****				
235	33	1	*****				
245	26	1	*****				
255	42	1	*****				
265	47	2	*****				
275	52	2	*****				
285	59	2	*****				
295	52	2	*****				
305	83	3	*****				
315	73	3	*****				
325	117	4	*****				
335	120	4	*****				
345	124	4	*****				
355	123	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2891  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 17/05/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	160	320	480	640	800
7.23	0	0	.	.	.	.	.
7.29	33	1	**				
7.35	1354	47	*****				
7.41	712	25	*****				
7.47	164	6	*****				
7.53	77	3	*****				
7.59	10	0	*				
7.65	0	0					
7.71	3	0					
7.77	0	0					
7.83	0	0					
7.89	2	0					
7.95	3	0					
8.01	5	0					
8.07	8	0	*				
8.13	39	1	**				
8.19	17	1	*				
8.25	11	0	*				
8.31	9	0	*				
8.37	6	0					
8.43	7	0					
8.49	7	0					
8.55	15	1	*				
8.61	8	0	*				
8.67	14	0	*				
8.73	28	1	**				
8.79	68	2	****				
8.85	60	2	****				
8.91	59	2	****				
8.97	38	1	**				
9.03	54	2	***				
9.09	44	2	***				
9.15	24	1	**				
9.21	9	0	*				
9.27	2	0					
9.33	0	0					
9.39	0	0					
9.45	0	0					
9.51	0	0					
9.57	0	0					

NO. OF SAMPLES OVER 9.60 = 1  
 NO. OF SAMPLES UNDER 7.20 = 0  
 TOTAL NO. OF OBSERVATIONS = 2891  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 30M START DATE 17/05/73

MEDIAN (PPT)	FREQUENCY NO, PCT	140	280	420	560	700
28.32	13 0 *	.	.	.	.	.
28.36	16 1 *					
28.40	16 1 *					
28.44	21 1 **					
28.48	18 1 *					
28.52	15 1 *					
28.56	13 0 *					
28.60	35 1 ***					
28.64	40 1 ***					
28.68	41 1 ***					
28.72	56 2 ****					
28.76	58 2 ****					
28.80	53 2 ****					
28.84	23 1 **					
28.88	34 1 **					
28.92	21 1 **					
28.96	3 0					
29.00	1 0					
29.04	4 0					
29.08	16 1 *					
29.12	16 1 *					
29.16	26 1 **					
29.20	0 0					
29.24	2 0					
29.28	7 0 *					
29.32	3 0					
29.36	2 0					
29.40	2 0					
29.44	12 0 *					
29.48	54 2 ****					
29.52	146 5 *****					
29.56	249 9 *****					
29.60	870 30 *****					
29.64	382 13 *****					
29.68	432 15 *****					
29.72	154 5 *****					
29.76	29 1 **					
29.80	7 0 *					
29.84	0 0					
29.88	0 0					

NO. OF SAMPLES OVER 29.90 = 0

NO. OF SAMPLES UNDER 28.30 = 1

TOTAL NO. OF OBSERVATIONS = 2891

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

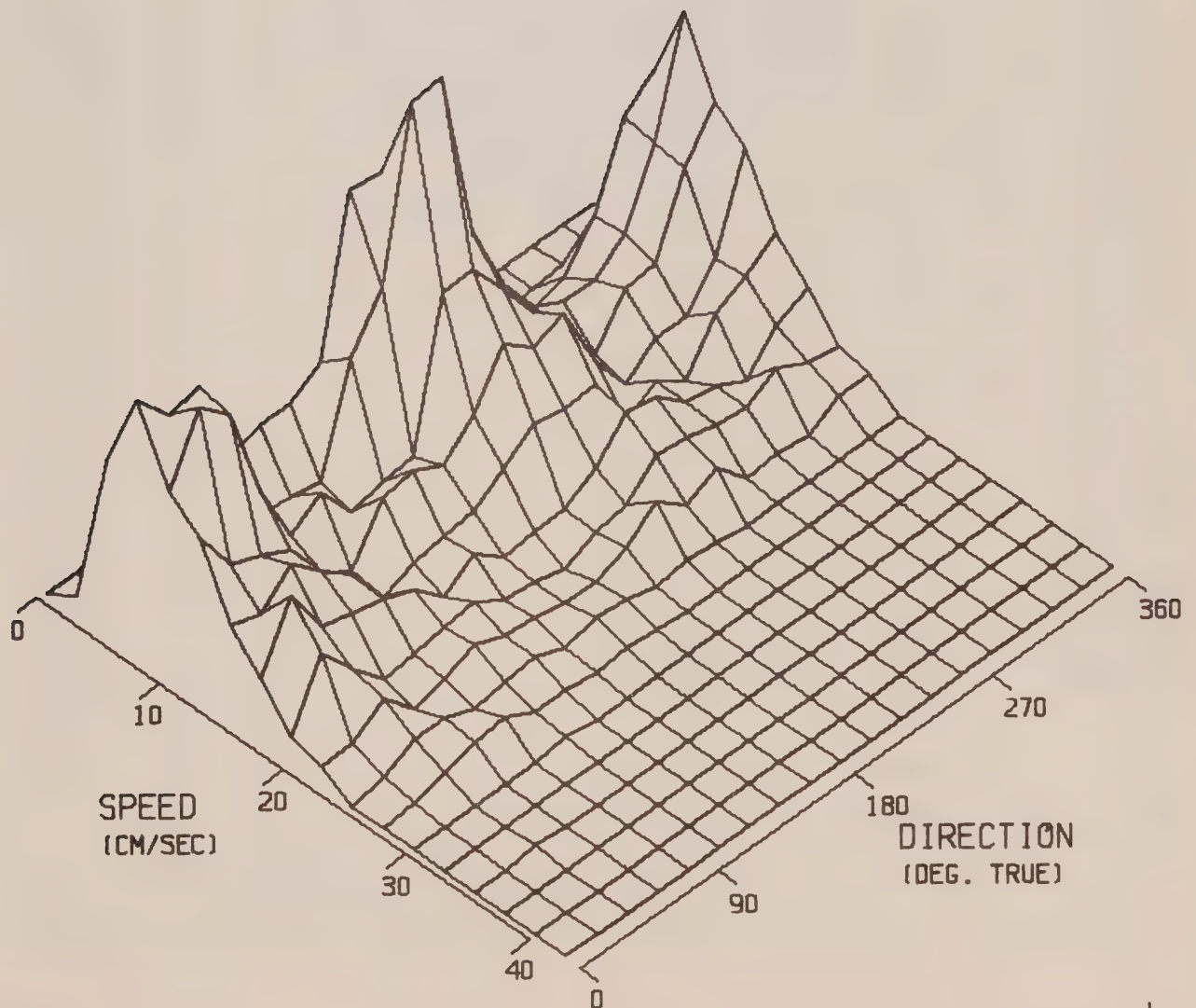
STARTING DATE: 7/ 6/73    ENDING DATE: 27/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 7/ 6/73

NO. OF SAMPLES = 2878





STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 7/ 6/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	005	060	068	028	019	007							187
15- 29	001	061	070	026	030	014	003						205
30- 44	004	065	064	022	020	013	005						193
45- 59	004	044	058	029	015	006	010	001	001				168
60- 74	002	034	025	031	021	003	006	001					123
75- 89	003	024	017	012	011	004	005	001					77
90-104	003	030	015	006	013	007	003	001					78
105-119	002	018	017	012	006	006	005						66
120-134		028	013	016	008	006	005						76
135-149	004	043	028	011	008	005	003						102
150-164	002	065	020	011	004	003	003						108
165-179	002	101	032	022	002	001	004	001					165
180-194	001	105	074	018	003	002	003						206
195-209	002	088	067	032	006	004							199
210-224	001	038	057	029	009	010	001						145
225-239		025	038	027	009	009	002						110
240-254		021	029	025	016	013							104
255-269	001	017	014	009	017	009							67
270-284		013	004	006	012	004							39
285-299		010	014	011	008	008							51
300-314		015	019	008	010	004							56
315-329	001	024	020	014	007	005							71
330-344		042	037	022	012	007							120
345-359		055	050	037	012	008							162
	38	850	278	58	1	0	0	2878					
	1026	464	158	5	0	0	0						

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 07/06/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
4	0	0	.	.	.	.	.
12	6	0	*				
20	4	0	*				
28	15	1	***				
36	50	2	*****				
44	165	6	*****				
52	242	8	*****				
60	243	8	*****				
68	223	8	*****				
76	116	4	*****				
84	204	7	*****				
92	203	7	*****				
100	147	5	*****				
108	152	5	*****				
116	144	5	*****				
124	96	3	*****				
132	109	4	*****				
140	94	3	*****				
148	84	3	*****				
156	81	3	*****				
164	56	2	*****				
172	63	2	*****				
180	57	2	*****				
188	49	2	*****				
196	53	2	*****				
204	53	2	*****				
212	33	1	*****				
220	36	1	*****				
228	25	1	*****				
236	21	1	****				
244	9	0	**				
252	10	0	**				
260	10	0	**				
268	13	0	***				
276	6	0	*				
284	4	0	*				
292	1	0					
300	0	0					
308	0	0					
316	0	0					

NO. OF SAMPLES OVER 320 = 1  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 30M START DATE 07/06/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	143	5	*****				
15	121	4	*****				
25	149	5	*****				
35	117	4	*****				
45	148	5	*****				
55	84	3	*****				
65	79	3	*****				
75	68	2	*****				
85	48	2	*****				
95	56	2	*****				
105	47	2	*****				
115	43	1	*****				
125	51	2	*****				
135	65	2	*****				
145	62	2	*****				
155	63	2	*****				
165	105	4	*****				
175	112	4	*****				
185	136	5	*****				
195	151	5	*****				
205	113	4	*****				
215	97	3	*****				
225	80	3	*****				
235	79	3	*****				
245	69	2	*****				
255	54	2	*****				
265	44	2	*****				
275	23	1	*****				
285	31	1	*****				
295	34	1	*****				
305	34	1	*****				
315	42	1	*****				
325	54	2	*****				
335	83	3	*****				
345	87	3	*****				
355	106	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 07/06/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	90	180	270	360	450
7.42	0	0	.	.	.	.	.
7.46	0	0					
7.50	0	0					
7.54	3	0					
7.58	5	0					
7.62	39	1					
7.66	45	2					
7.70	356	12					
7.74	323	11					
7.78	273	9					
7.82	113	4					
7.86	393	14					
7.90	272	9					
7.94	144	5					
7.98	80	3					
8.02	125	4					
8.06	75	3					
8.10	111	4					
8.14	20	1					
8.18	40	1					
8.22	63	2					
8.26	31	1					
8.30	12	0					
8.34	50	2					
8.38	26	1					
8.42	53	2					
8.46	22	1					
8.50	44	2					
8.54	53	2					
8.58	34	1					
8.62	12	0					
8.66	29	1					
8.70	15	1					
8.74	14	0					
8.78	3	0					
8.82	0	0					
8.86	0	0					
8.90	0	0					
8.94	0	0					
8.98	0	0					

NO. OF SAMPLES OVER 9.00 = 0  
 NO. OF SAMPLES UNDER 7.40 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES

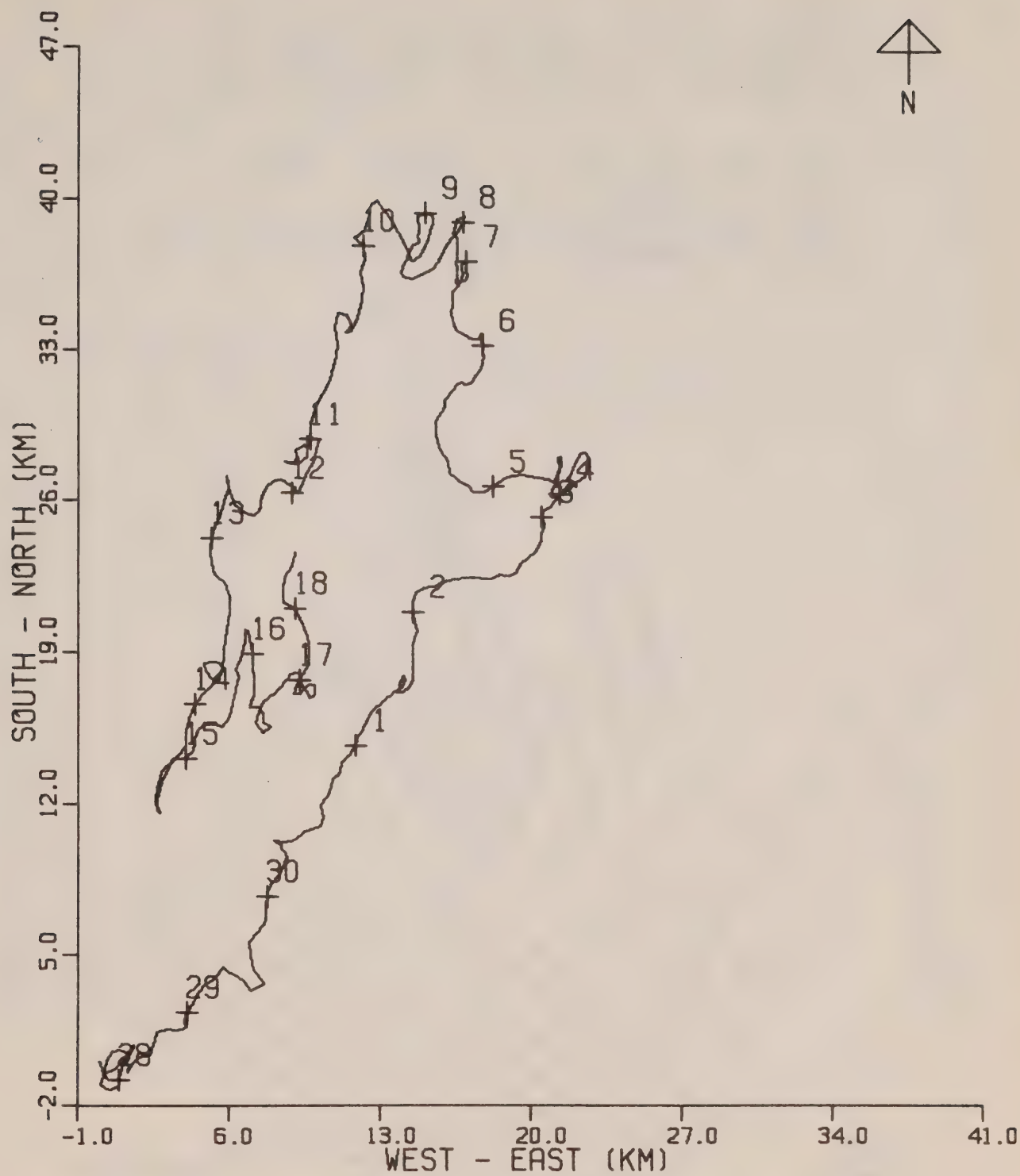
## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 30M START DATE 07/06/73

MEDIAN (PPT)	FREQUENCY NO.	PCT .	140 .	280 .	420 .	560 .	700 .
28.52	0	0					
28.56	0	0					
28.60	0	0					
28.64	0	0					
28.68	0	0					
28.72	0	0					
28.76	1	0					
28.80	1	0					
28.84	7	0	*				
28.88	15	1	*				
28.92	39	1	***				
28.96	22	1	**				
29.00	36	1	***				
29.04	42	1	***				
29.08	49	2	****				
29.12	77	3	*****				
29.16	30	1	**				
29.20	33	1	**				
29.24	37	1	***				
29.28	33	1	**				
29.32	69	2	*****				
29.36	66	2	*****				
29.40	212	7	*****				
29.44	358	12	*****				
29.48	555	19	*****				
29.52	850	30	*****				
29.56	263	9	*****				
29.60	80	3	*****				
29.64	3	0					
29.68	0	0					
29.72	0	0					
29.76	0	0					
29.80	0	0					
29.84	0	0					
29.88	0	0					
29.92	0	0					
29.96	0	0					
30.00	0	0					
30.04	0	0					
30.08	0	0					

NO. OF SAMPLES OVER 30.10 = 0  
 NO. OF SAMPLES UNDER 28.50 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5S

DEPTH 30 M.

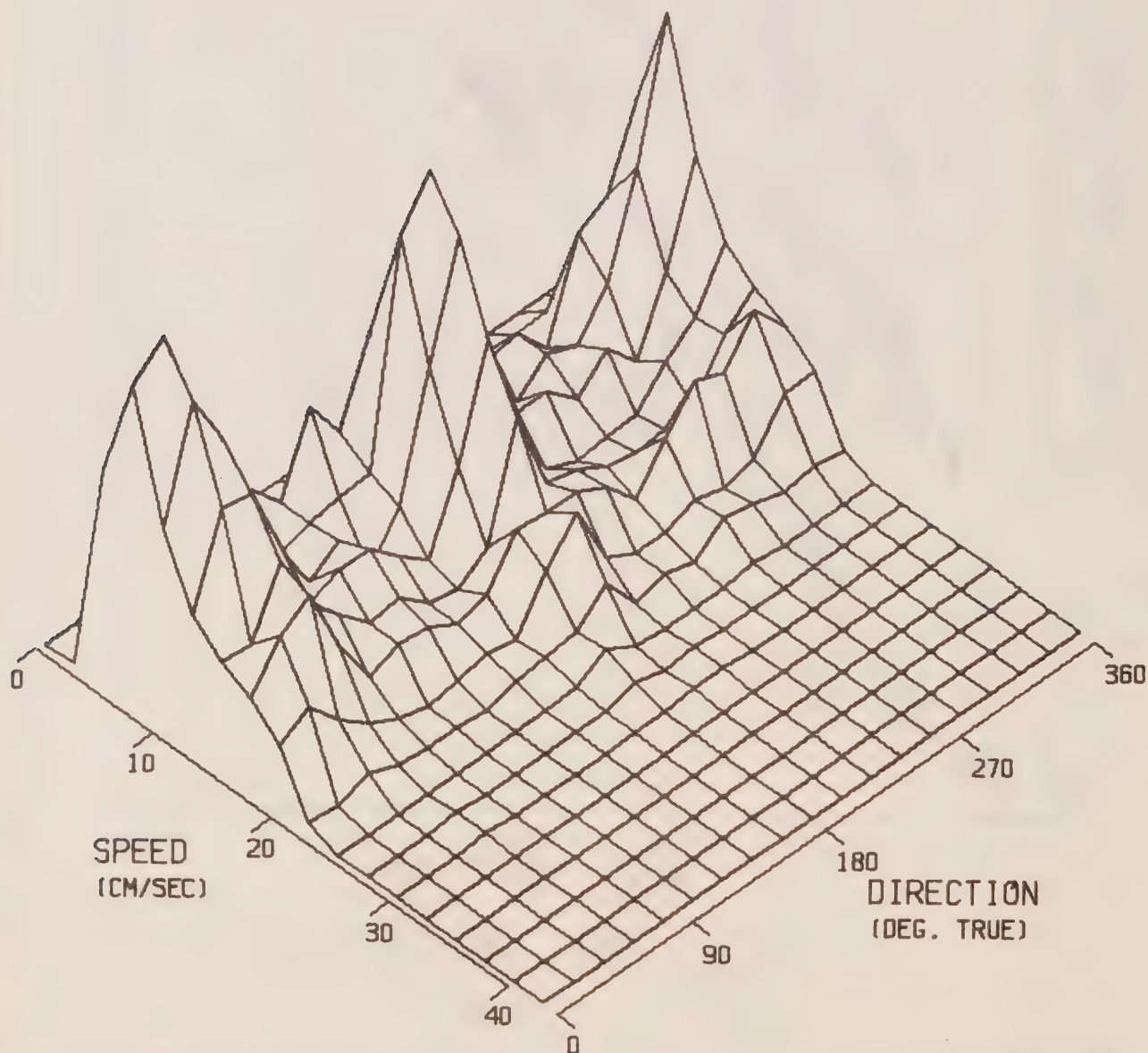
STARTING DATE: 27/ 6/73    ENDING DATE: 18/ 7/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 27/ 6/73

NO. OF SAMPLES = 3000



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 27/ 6/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		072	091	037	026	009							235
15- 29	004	076	093	054	039	006							272
30- 44	002	072	081	061	035	005							256
45- 59	002	042	058	033	029	003	001						168
60- 74	003	025	031	032	014	007		001					113
75- 89	002	023	026	022	004	001							78
90-104	004	031	015	019	010	002							81
105-119		025	019	016	011								71
120-134		014	019	013	005	001							52
135-149		033	012	009	007	003							64
150-164		030	011	008	005	004	001						59
165-179	002	046	028	007	019	005	002						109
180-194	001	080	071	024	022	011	005						214
195-209	002	069	082	054	020	013	001	001					242
210-224		053	052	023	021	004		001					154
225-239	003	041	026	009	013	004		001					97
240-254	001	018	015	015	011	004							64
255-269	006	016	017	011	001	001							52
270-284	004	017	011	007	009	010	001						59
285-299	006	019	017	008	019	005							74
300-314	006	017	018	011	017	005							74
315-329	001	035	013	015	020	006							90
330-344	001	043	028	028	038	005							143
345-359	001	076	046	023	025	005							176
	51		880		420		11		0		0		2997
		973		539		119		4		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 27/06/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
4	0	0	.	.	.	.	.
12	1	0					
20	6	0	*				
28	24	1	*****				
36	63	2	*****				
44	122	4	*****				
52	209	7	*****				
60	257	9	*****				
68	236	8	*****				
76	106	4	*****				
84	206	7	*****				
92	165	6	*****				
100	191	6	*****				
108	160	5	*****				
116	158	5	*****				
124	118	4	*****				
132	125	4	*****				
140	111	4	*****				
148	96	3	*****				
156	89	3	*****				
164	104	3	*****				
172	108	4	*****				
180	78	3	*****				
188	74	2	*****				
196	56	2	*****				
204	39	1	*****				
212	45	2	*****				
220	20	1	****				
228	11	0	**				
236	5	0	*				
244	1	0					
252	2	0					
260	4	0	*				
268	2	0					
276	1	0					
284	1	0					
292	2	0					
300	1	0					
308	0	0					
316	0	0					

NO. OF SAMPLES OVER 320 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 27/06/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	175	6	*****				
15	161	5	*****				
25	188	6	*****				
35	174	6	*****				
45	146	5	*****				
55	98	3	*****				
65	76	3	*****				
75	58	2	*****				
85	55	2	*****				
95	50	2	*****				
105	43	1	*****				
115	52	2	*****				
125	37	1	*****				
135	36	1	*****				
145	46	2	*****				
155	40	1	*****				
165	38	1	*****				
175	102	3	*****				
185	135	5	*****				
195	179	6	*****				
205	148	5	*****				
215	99	3	*****				
225	68	2	*****				
235	67	2	*****				
245	46	2	*****				
255	36	1	*****				
265	35	1	*****				
275	41	1	*****				
285	50	2	*****				
295	43	1	*****				
305	47	2	*****				
315	60	2	*****				
325	61	2	*****				
335	90	3	*****				
345	110	4	*****				
355	110	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 27/06/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	50	100	150	200	250
7.73	7	0	*				
7.79	20	1	*****				
7.85	89	3	*****				
7.91	44	1	*****				
7.97	54	2	*****				
8.03	62	2	*****				
8.09	107	4	*****				
8.15	97	3	*****				
8.21	145	5	*****				
8.27	185	6	*****				
8.33	72	2	*****				
8.39	127	4	*****				
8.45	97	3	*****				
8.51	153	5	*****				
8.57	165	6	*****				
8.63	90	3	*****				
8.69	104	3	*****				
8.75	102	3	*****				
8.81	88	3	*****				
8.87	162	5	*****				
8.93	111	4	*****				
8.99	165	6	*****				
9.05	188	6	*****				
9.11	93	3	*****				
9.17	144	5	*****				
9.23	207	7	*****				
9.29	28	1	*****				
9.35	25	1	*****				
9.41	14	0	***				
9.47	5	0	*				
9.53	1	0					
9.59	4	0	*				
9.65	2	0					
9.71	0	0					
9.77	2	0					
9.83	12	0	**				
9.89	19	1	****				
9.95	10	0	**				
10.01	0	0					
10.07	0	0					

NO. OF SAMPLES OVER 10.10 = 0

NO. OF SAMPLES UNDER 7.70 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 30M START DATE 27/06/73

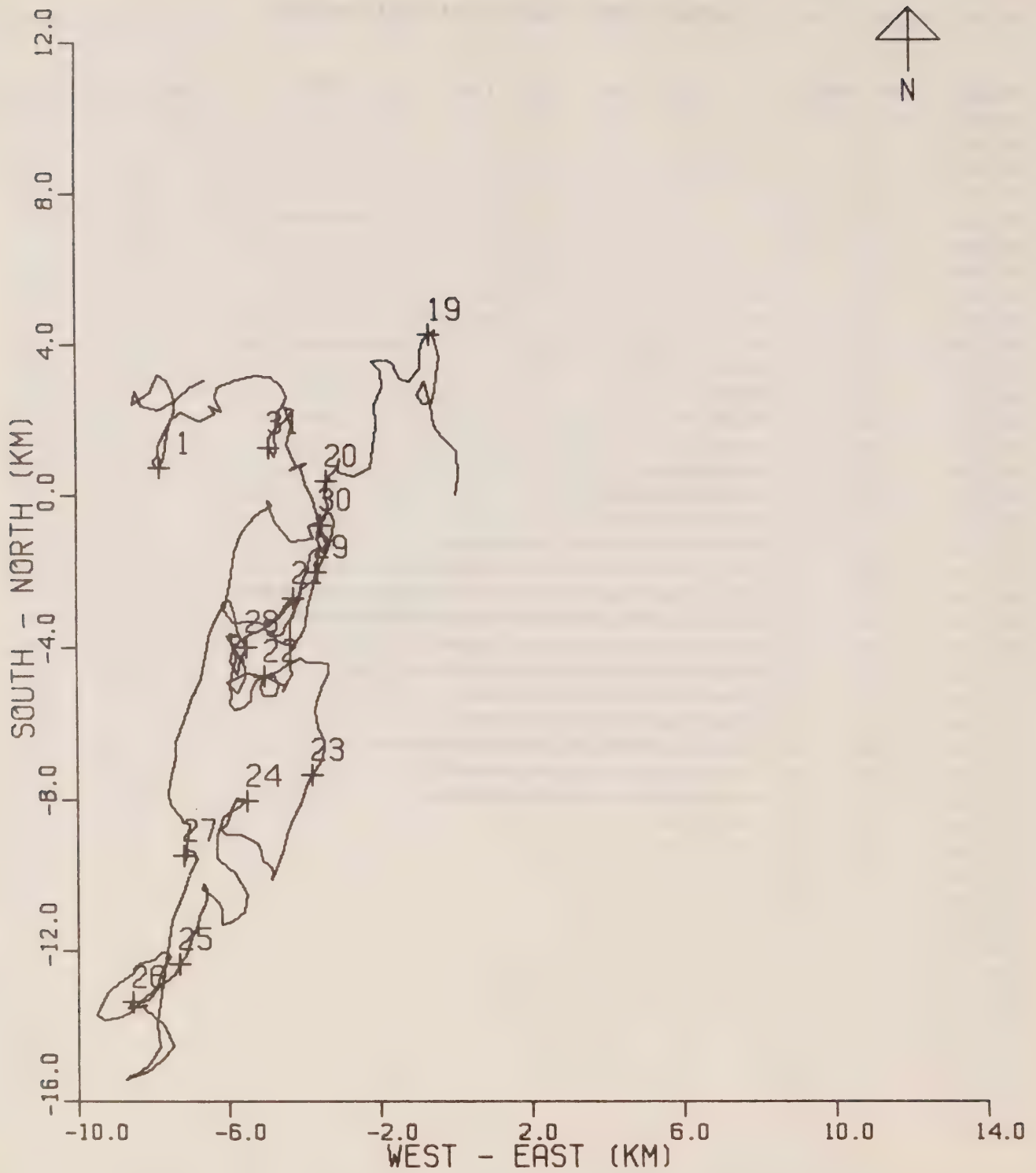
MEDIAN (PPT)	FREQUENCY NO.	PCT .	90 .	180 .	270 .	360 .	450 .
28.42	0	0					
28.46	0	0					
28.50	0	0					
28.54	0	0					
28.58	0	0					
28.62	1	0					
28.66	7	0	*				
28.70	7	0	*				
28.74	21	1	**				
28.78	33	1	****				
28.82	38	1	****				
28.86	52	2	*****				
28.90	36	1	****				
28.94	81	3	*****				
28.98	105	4	*****				
29.02	97	3	*****				
29.06	191	6	*****				
29.10	212	7	*****				
29.14	326	11	*****				
29.18	276	9	*****				
29.22	192	6	*****				
29.26	246	8	*****				
29.30	182	6	*****				
29.34	175	6	*****				
29.38	238	8	*****				
29.42	190	6	*****				
29.46	197	7	*****				
29.50	61	2	*****				
29.54	29	1	***				
29.58	7	0	*				
29.62	0	0					
29.66	0	0					
29.70	0	0					
29.74	0	0					
29.78	0	0					
29.82	0	0					
29.86	0	0					
29.90	0	0					
29.94	0	0					
29.98	0	0					

NO. OF SAMPLES OVER 30.00 = 0

NO. OF SAMPLES UNDER 28.40 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



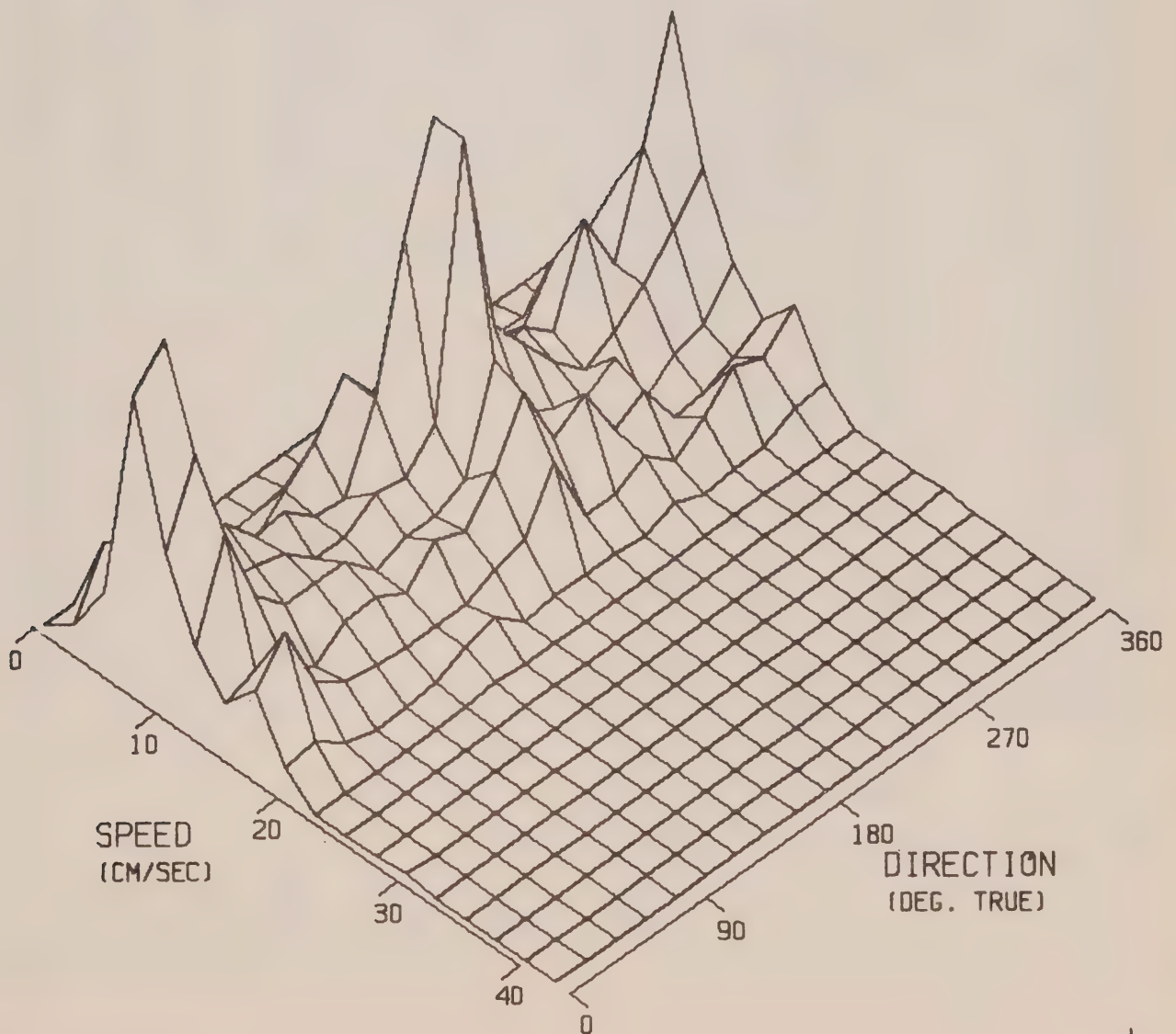
STN. NO. HS-55

DEPTH 30 M.

STARTING DATE: 18/ 7/73    ENDING DATE: 1/ 8/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.  
STARTING DATE: 18/ 7/73  
NO. OF SAMPLES = 2100



STN. NO. HS-58 DEPTH 30 M.

STARTING DATE: 18/ 7/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	004	055	066	015	017	004							161
15- 29	017	051	077	035	025	001							206
30- 44	002	013	035	013	010								73
45- 59		011	019	014	007								51
60- 74		022	019	008	002								51
75- 89		012	021	014	005								52
90-104		011	015	015	005								46
105-119	001	014	018	009	003	001							46
120-134		010	006	012	003	003							34
135-149	002	020	017	015	007	001							62
150-164		033	018	012	004								67
165-179		038	024	013	007								82
180-194		058	050	031	013								152
195-209		082	093	037	017								229
210-224	002	059	045	021	003								130
225-239	001	030	037	021	006								95
240-254		014	022	023	006								65
255-269		017	023	011	008								59
270-284	002	014	009	021	003								49
285-299	002	029	017	006	006								60
300-314		034	010	005	005								54
315-329		023	025	007	014								69
330-344		046	029	006	010	001							92
345-359	004	040	035	013	017	001		001					111
	37		730		203		0		0		0		2096
	736		377		12		1		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 4



## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 18/07/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT .	40	80	120	160	200
3	0	0	.	.	.	.	.
9	0	0					
15	24	1	*****				
21	1	0					
27	2	0	*				
33	10	0	***				
39	16	1	*****				
45	86	4	*****				
51	64	3	*****				
57	143	7	*****				
63	116	6	*****				
69	214	10	*****				
75	97	5	*****				
81	88	4	*****				
87	157	7	*****				
93	87	4	*****				
99	139	7	*****				
105	74	4	*****				
111	127	6	*****				
117	58	3	*****				
123	89	4	*****				
129	37	2	*****				
135	66	3	*****				
141	38	2	*****				
147	63	3	*****				
153	40	2	*****				
159	44	2	*****				
165	65	3	*****				
171	25	1	*****				
177	50	2	*****				
183	19	1	*****				
189	28	1	*****				
195	9	0	**				
201	14	1	****				
207	1	0					
213	3	0	*				
219	1	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 5

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 2100

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 18/07/73

MEDIAN (DEG.T)	FREQUENCY NO. PCT	50	100	150	200	250
5	114 5	*****	*****	*****	*****	*****
15	121 6	*****	*****	*****	*****	*****
25	140 7	*****	*****	*****	*****	*****
35	51 2	*****	*****	*****	*****	*****
45	36 2	*****	*****	*****	*****	*****
55	37 2	*****	*****	*****	*****	*****
65	36 2	*****	*****	*****	*****	*****
75	32 2	*****	*****	*****	*****	*****
85	32 2	*****	*****	*****	*****	*****
95	30 1	*****	*****	*****	*****	*****
105	30 1	*****	*****	*****	*****	*****
115	34 2	*****	*****	*****	*****	*****
125	21 1	*****	*****	*****	*****	*****
135	25 1	*****	*****	*****	*****	*****
145	52 2	*****	*****	*****	*****	*****
155	39 2	*****	*****	*****	*****	*****
165	58 3	*****	*****	*****	*****	*****
175	52 2	*****	*****	*****	*****	*****
185	89 4	*****	*****	*****	*****	*****
195	148 7	*****	*****	*****	*****	*****
205	150 7	*****	*****	*****	*****	*****
215	79 4	*****	*****	*****	*****	*****
225	84 4	*****	*****	*****	*****	*****
235	54 3	*****	*****	*****	*****	*****
245	43 2	*****	*****	*****	*****	*****
255	48 2	*****	*****	*****	*****	*****
265	32 2	*****	*****	*****	*****	*****
275	32 2	*****	*****	*****	*****	*****
285	35 2	*****	*****	*****	*****	*****
295	47 2	*****	*****	*****	*****	*****
305	36 2	*****	*****	*****	*****	*****
315	37 2	*****	*****	*****	*****	*****
325	48 2	*****	*****	*****	*****	*****
335	64 3	*****	*****	*****	*****	*****
345	66 3	*****	*****	*****	*****	*****
355	68 3	*****	*****	*****	*****	*****
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2100  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5S DEPTH 30M START DATE 18/07/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT	50	100	150	200	250
8.43	0	0	.	.	.	.	.
8.49	4	0	*				
8.55	8	0	**				
8.61	52	2	*****				
8.67	134	6	*****				
8.73	76	4	*****				
8.79	63	3	*****				
8.85	87	4	*****				
8.91	89	4	*****				
8.97	56	3	*****				
9.03	78	4	*****				
9.09	144	7	*****				
9.15	236	11	*****				
9.21	189	9	*****				
9.27	107	5	*****				
9.33	100	5	*****				
9.39	62	3	*****				
9.45	20	1	****				
9.51	35	2	*****				
9.57	30	1	*****				
9.63	60	3	*****				
9.69	107	5	*****				
9.75	45	2	*****				
9.81	55	3	*****				
9.87	35	2	*****				
9.93	94	4	*****				
9.99	65	3	*****				
10.05	19	1	****				
10.11	19	1	****				
10.17	20	1	****				
10.23	10	0	**				
10.29	1	0					
10.35	0	0					
10.41	0	0					
10.47	0	0					
10.53	0	0					
10.59	0	0					
10.65	0	0					
10.71	0	0					
10.77	0	0					

NO. OF SAMPLES OVER 10.80 = 0  
 NO. OF SAMPLES UNDER 8.40 = 0  
 TOTAL NO. OF OBSERVATIONS = 2100  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 30M START DATE 18/07/73

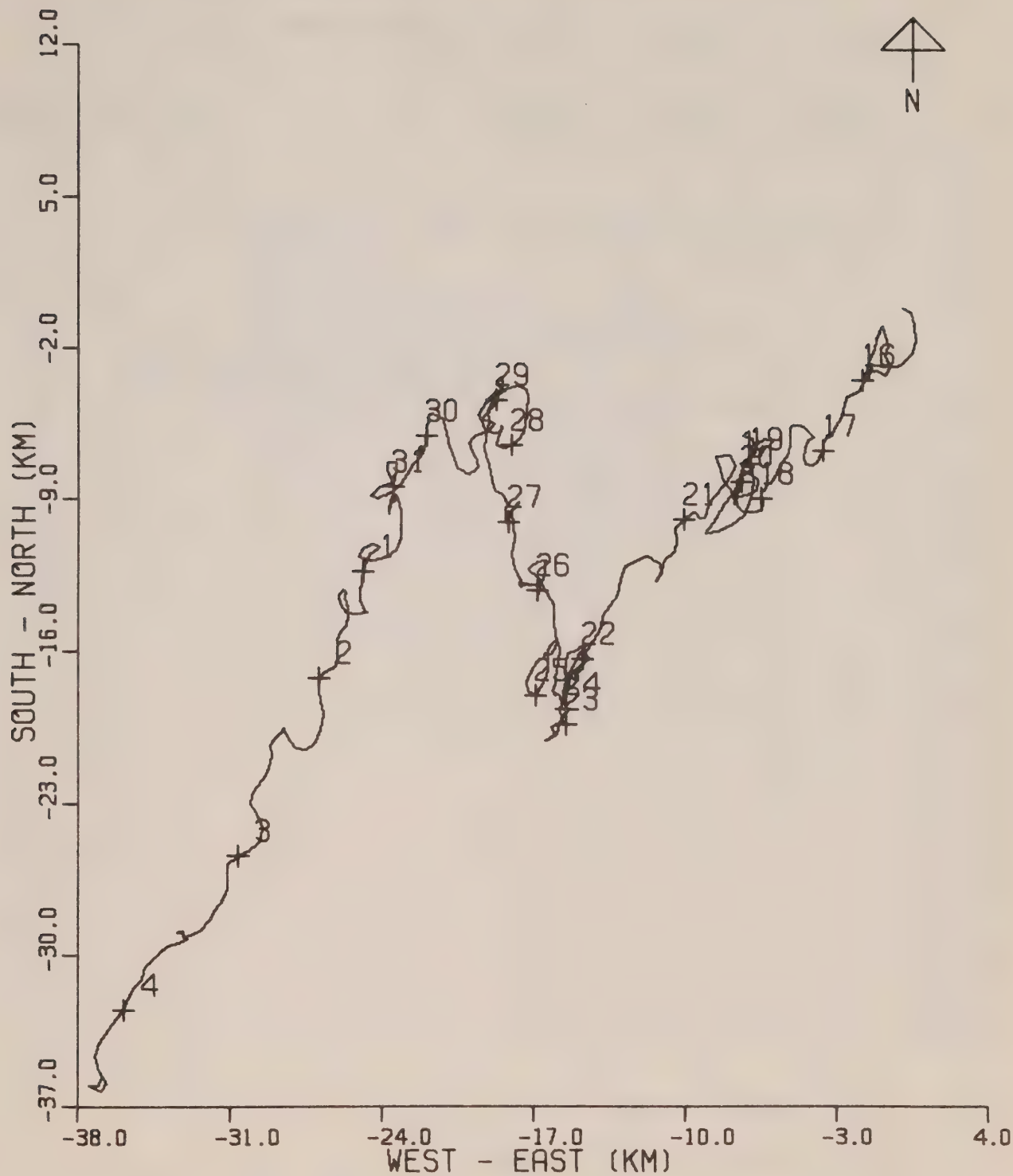
MEDIAN (PPT)	FREQUENCY NO. PCT	40	80	120	160	200
28.02	0 0	.	.	.	.	.
28.06	6 0	***				
28.10	1 0					
28.14	3 0	*				
28.18	19 1	*****				
28.22	11 1	***				
28.26	19 1	*****				
28.30	57 3	*****				
28.34	68 3	*****				
28.38	71 3	*****				
28.42	72 3	*****				
28.46	78 4	*****				
28.50	39 2	*****				
28.54	32 2	*****				
28.58	12 1	***				
28.62	27 1	*****				
28.66	42 2	*****				
28.70	54 3	*****				
28.74	62 3	*****				
28.78	61 3	*****				
28.82	58 3	*****				
28.86	57 3	*****				
28.90	81 4	*****				
28.94	78 4	*****				
28.98	123 6	*****				
29.02	123 6	*****				
29.06	185 9	*****				
29.10	151 7	*****				
29.14	193 9	*****				
29.18	166 8	*****				
29.22	107 5	*****				
29.26	37 2	*****				
29.30	7 0	**				
29.34	0 0					
29.38	0 0					
29.42	0 0					
29.46	0 0					
29.50	0 0					
29.54	0 0					
29.58	0 0					

NO. OF SAMPLES OVER 29.60 = 0

NO. OF SAMPLES UNDER 28.00 = 0

TOTAL NO. OF OBSERVATIONS = 2100

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 15/ 8/73    ENDING DATE: 4/ 9/73



STN. NO. MS-55 DEPTH 30 M.

STARTING DATE: 15/ 8/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO 039	040 TO 079	080 TO 119	120 TO 159	160 TO 199	200 TO 239	240 TO 279	280 TO 319	320 TO 359	360 TO 399	400 TO 439	440 TO 479	
0- 14		027	047	017	032	011	001						135
15- 29	005	048	042	012	026	009	001						143
30- 44		025	038	018	016	003	003						103
45- 59	001	008	025	022	016	005	002						79
60- 74		011	016	025	011	002							65
75- 89		002	013	017	005	003							40
90-104		005	009	010	005	002			001				32
105-119		005	007	014	004	001		001					32
120-134	001	013	009	026	003	006							58
135-149	001	012	007	018	015	002							55
150-164	001	025	017	015	025	005	001						89
165-179	001	033	037	027	029	011	002						140
180-194	001	095	118	056	065	008	004						347
195-209	001	081	099	059	057	018							315
210-224		060	067	073	058	014	001						273
225-239	001	032	055	035	035	005	001						164
240-254	003	026	028	039	026	010	001						133
255-269		016	019	014	010	008	002						69
270-284	003	018	022	019	022	002		001	001				88
285-299	001	022	028	017	017	004							89
300-314	004	016	023	017	010	004							74
315-329	005	023	015	020	011	005							79
330-344	002	024	024	037	029	019							135
345-359	001	035	038	033	022	007							136
	32		803		549		19		2		0		2873
	662		640		164		2		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 15/08/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
4	0	0	.	.	.	.	.
12	0	0					
20	3	0	*				
28	13	0	***				
36	36	1	*****				
44	68	2	*****				
52	141	5	*****				
60	173	6	*****				
68	170	6	*****				
76	90	3	*****				
84	168	6	*****				
92	146	5	*****				
100	157	5	*****				
108	159	6	*****				
116	173	6	*****				
124	155	5	*****				
132	119	4	*****				
140	115	4	*****				
148	111	4	*****				
156	140	5	*****				
164	130	5	*****				
172	118	4	*****				
180	122	4	*****				
188	105	4	*****				
196	74	3	*****				
204	60	2	*****				
212	42	1	*****				
220	31	1	*****				
228	25	1	*****				
236	14	0	***				
244	6	0	*				
252	3	0	*				
260	0	0					
268	2	0					
276	0	0					
284	2	0					
292	0	0					
300	0	0					
308	0	0					
316	0	0					

NO. OF SAMPLES OVER 320 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2873  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-59 DEPTH 30M START DATE 15/08/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	102	4	*****	.	.	.	.
15	99	3	*****				
25	88	3	*****				
35	63	2	*****				
45	65	2	*****				
55	49	2	*****				
65	46	2	*****				
75	31	1	*****				
85	23	1	*****				
95	20	1	****				
105	22	1	****				
115	23	1	*****				
125	37	1	*****				
135	43	1	*****				
145	37	1	*****				
155	50	2	*****				
165	90	3	*****				
175	100	3	*****				
185	244	8	*****				
195	221	8	*****				
205	203	7	*****				
215	194	7	*****				
225	123	4	*****				
235	109	4	*****				
245	95	3	*****				
255	55	2	*****				
265	45	2	*****				
275	64	2	*****				
285	55	2	*****				
295	58	2	*****				
305	54	2	*****				
315	44	2	*****				
325	61	2	*****				
335	88	3	*****				
345	89	3	*****				
355	83	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2873  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-53 DEPTH 30M START DATE 15/08/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	40	80	120	160	200
8.42	0	0	.	.	.	.	.
8.46	0	0					
8.50	29	1	*****				
8.54	31	1	*****				
8.58	183	6	*****				
8.62	54	2	*****				
8.66	124	4	*****				
8.70	151	5	*****				
8.74	165	6	*****				
8.78	50	2	*****				
8.82	115	4	*****				
8.86	152	5	*****				
8.90	154	5	*****				
8.94	80	3	*****				
8.98	142	5	*****				
9.02	145	5	*****				
9.06	134	5	*****				
9.10	138	5	*****				
9.14	193	7	*****				
9.18	167	6	*****				
9.22	116	4	*****				
9.26	43	1	*****				
9.30	72	3	*****				
9.34	45	2	*****				
9.38	36	1	*****				
9.42	17	1	****				
9.46	23	1	*****				
9.50	32	1	*****				
9.54	36	1	*****				
9.58	28	1	*****				
9.62	86	3	*****				
9.66	42	1	*****				
9.70	28	1	*****				
9.74	11	0	***				
9.78	18	1	*****				
9.82	17	1	****				
9.86	11	0	***				
9.90	5	0	*				
9.94	0	0					
9.98	0	0					

NO. OF SAMPLES OVER 10.00 = 0  
 NO. OF SAMPLES UNDER 8.40 = 0  
 TOTAL NO. OF OBSERVATIONS = 2873  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 30M START DATE 15/08/73

MEDIAN (PPT)	FREQUENCY NO.	PCT	90	180	270	360	450
28.42	3	0	.	.	.	.	.
28.46	14	0	**				
28.50	18	1	**				
28.54	30	1	***				
28.58	27	1	***				
28.62	22	1	**				
28.66	46	2	*****				
28.70	50	2	*****				
28.74	23	1	***				
28.78	30	1	***				
28.82	53	2	*****				
28.86	65	2	*****				
28.90	35	1	****				
28.94	41	1	*****				
28.98	40	1	****				
29.02	72	3	*****				
29.06	117	4	*****				
29.10	189	7	*****				
29.14	233	8	*****				
29.18	244	8	*****				
29.22	289	10	*****				
29.26	250	9	*****				
29.30	115	4	*****				
29.34	144	5	*****				
29.38	171	6	*****				
29.42	140	5	*****				
29.46	199	7	*****				
29.50	148	5	*****				
29.54	63	2	*****				
29.58	2	0					
29.62	0	0					
29.66	0	0					
29.70	0	0					
29.74	0	0					
29.78	0	0					
29.82	0	0					
29.86	0	0					
29.90	0	0					
29.94	0	0					
29.98	0	0					

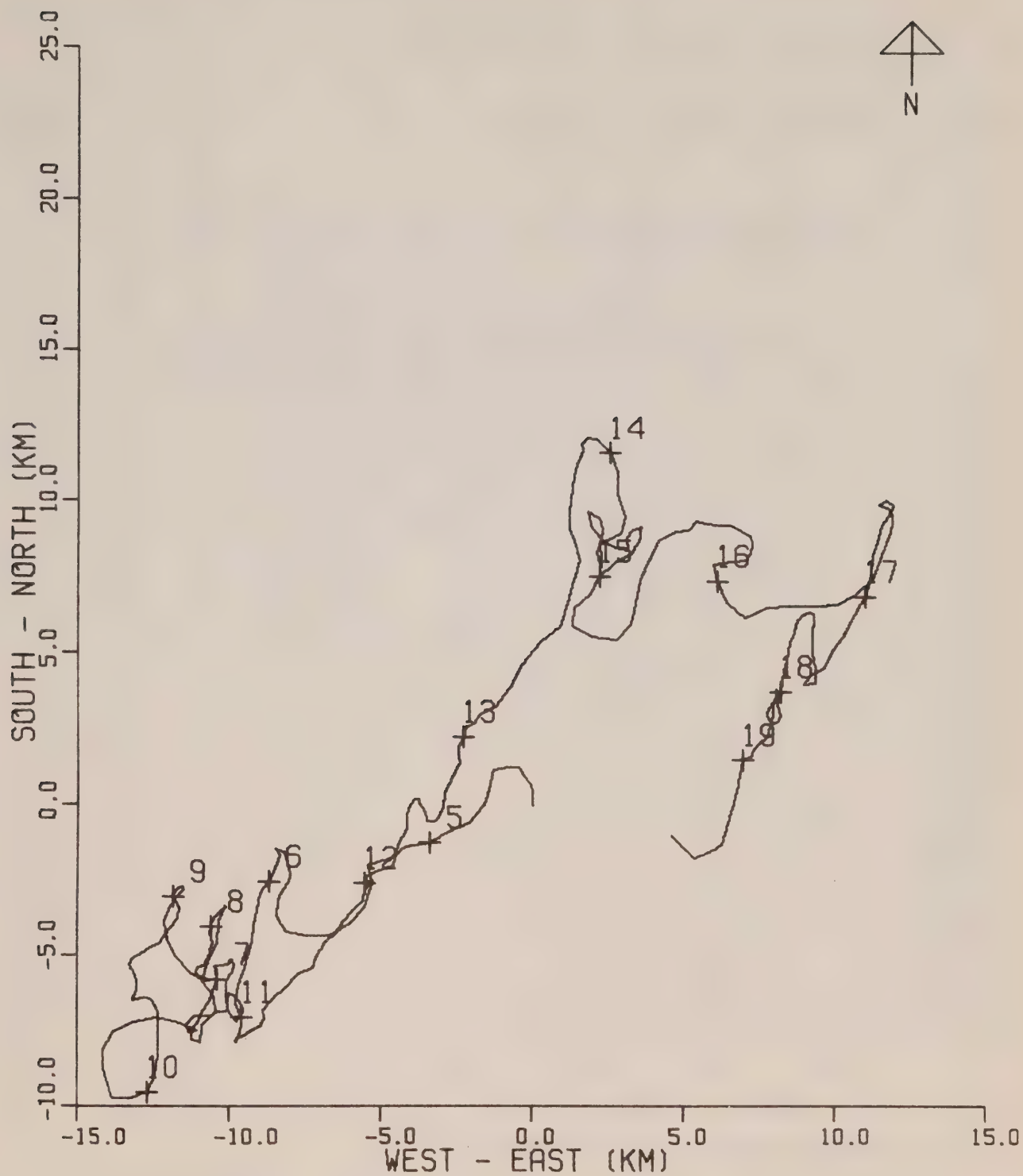
NO. OF SAMPLES OVER 30.00 = 0

NO. OF SAMPLES UNDER 28.40 = 0

TOTAL NO. OF OBSERVATIONS = 2873

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 4/ 9/73    ENDING DATE: 19/ 9/73

STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 4/ 9/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO	040 TO	080 TO	120 TO	160 TO	200 TO	240 TO	280 TO	320 TO	360 TO	400 TO	440 TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		036	041	020	027	022	001						147
15- 29	001	026	044	040	024	026	006		001	001			169
30- 44		014	039	024	025	011	005						118
45- 59	002	013	017	020	018	011	006						87
60- 74	002	016	013	004	007	011	004						57
75- 89		019	012	008	005	015	003						62
90-104	001	017	013	012	007	009	004						63
105-119	002	012	014	007	006	011	002						54
120-134	004	013	012	006	007	011	003						56
135-149	007	028	018	001	006	005	001						66
150-164	006	028	019	004	008	005	001						71
165-179	003	039	016	017	013	010	004						102
180-194		074	058	027	018	016	003						196
195-209		079	051	020	027	009							186
210-224	005	058	028	011	025	022	001						156
225-239	008	033	017	018	008	016	001						101
240-254	001	019	008	014	011	010	001						64
255-269	002	019	011	008	012	012	001						65
270-284	001	007	008	005	011	003							35
285-299	002	009	010	007	010	006		001					45
300-314		007	003	008	011								29
315-329		006	012	008	016	001							43
330-344	001	026	012	013	019	001							72
345-359	003	044	032	027	015	002							123
	51		508		336		47		0		1		2161
	642		329		245		1		1		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 04/09/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	50	100	150	200	250
4	0 0	.	.	.	.	.
12	1 0					
20	11 1	**				
28	23 1	*****				
36	46 2	*****				
44	96 4	*****				
52	130 6	*****				
60	177 8	*****				
68	144 7	*****				
76	65 3	*****				
84	109 5	*****				
92	128 6	*****				
100	109 5	*****				
108	80 4	*****				
116	82 4	*****				
124	76 4	*****				
132	60 3	*****				
140	51 2	*****				
148	59 3	*****				
156	83 4	*****				
164	63 3	*****				
172	65 3	*****				
180	67 3	*****				
188	73 3	*****				
196	68 3	*****				
204	87 4	*****				
212	45 2	*****				
220	54 2	*****				
228	39 2	*****				
236	35 2	*****				
244	7 0	*				
252	9 0	**				
260	9 0	**				
268	4 0	*				
276	3 0	*				
284	0 0					
292	1 0					
300	0 0					
308	0 0					
316	0 0					

NO. OF SAMPLES OVER 320 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2161  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 04/09/73

MEDIAN (DEG.T)	FREQ'NCY NO.	PCT	50	100	150	200	250
5	110	5	*****				
15	101	5	*****				
25	114	5	*****				
35	78	4	*****				
45	66	3	*****				
55	57	3	*****				
65	44	2	*****				
75	33	2	*****				
85	40	2	*****				
95	44	2	*****				
105	37	2	*****				
115	38	2	*****				
125	32	1	*****				
135	38	2	*****				
145	51	2	*****				
155	43	2	*****				
165	52	2	*****				
175	82	4	*****				
185	116	5	*****				
195	164	8	*****				
205	105	5	*****				
215	100	5	*****				
225	85	4	*****				
235	56	3	*****				
245	50	2	*****				
255	39	2	*****				
265	43	2	*****				
275	24	1	*****				
285	28	1	*****				
295	25	1	*****				
305	16	1	***				
315	30	1	*****				
325	28	1	*****				
335	45	2	*****				
345	57	3	*****				
355	90	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2161  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 04/09/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	70	140	210	280	350
8.42	2	0	.	.	.	.	.
8.46	19	1	***				
8.50	64	3	*****				
8.54	167	8	*****				
8.58	324	15	*****				
8.62	135	6	*****				
8.66	150	7	*****				
8.70	50	2	*****				
8.74	66	3	*****				
8.78	49	2	*****				
8.82	103	5	*****				
8.86	125	6	*****				
8.90	72	3	*****				
8.94	63	3	*****				
8.98	180	8	*****				
9.02	193	9	*****				
9.06	141	7	*****				
9.10	58	3	*****				
9.14	99	5	*****				
9.18	75	3	*****				
9.22	21	1	***				
9.26	1	0					
9.30	0	0					
9.34	3	0					
9.38	1	0					
9.42	0	0					
9.46	0	0					
9.50	0	0					
9.54	0	0					
9.58	0	0					
9.62	0	0					
9.66	0	0					
9.70	0	0					
9.74	0	0					
9.78	0	0					
9.82	0	0					
9.86	0	0					
9.90	0	0					
9.94	0	0					
9.98	0	0					

NO. OF SAMPLES OVER 10.00 = 0  
 NO. OF SAMPLES UNDER 8.40 = 0  
 TOTAL NO. OF OBSERVATIONS = 2161  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 30M START DATE 04/09/73

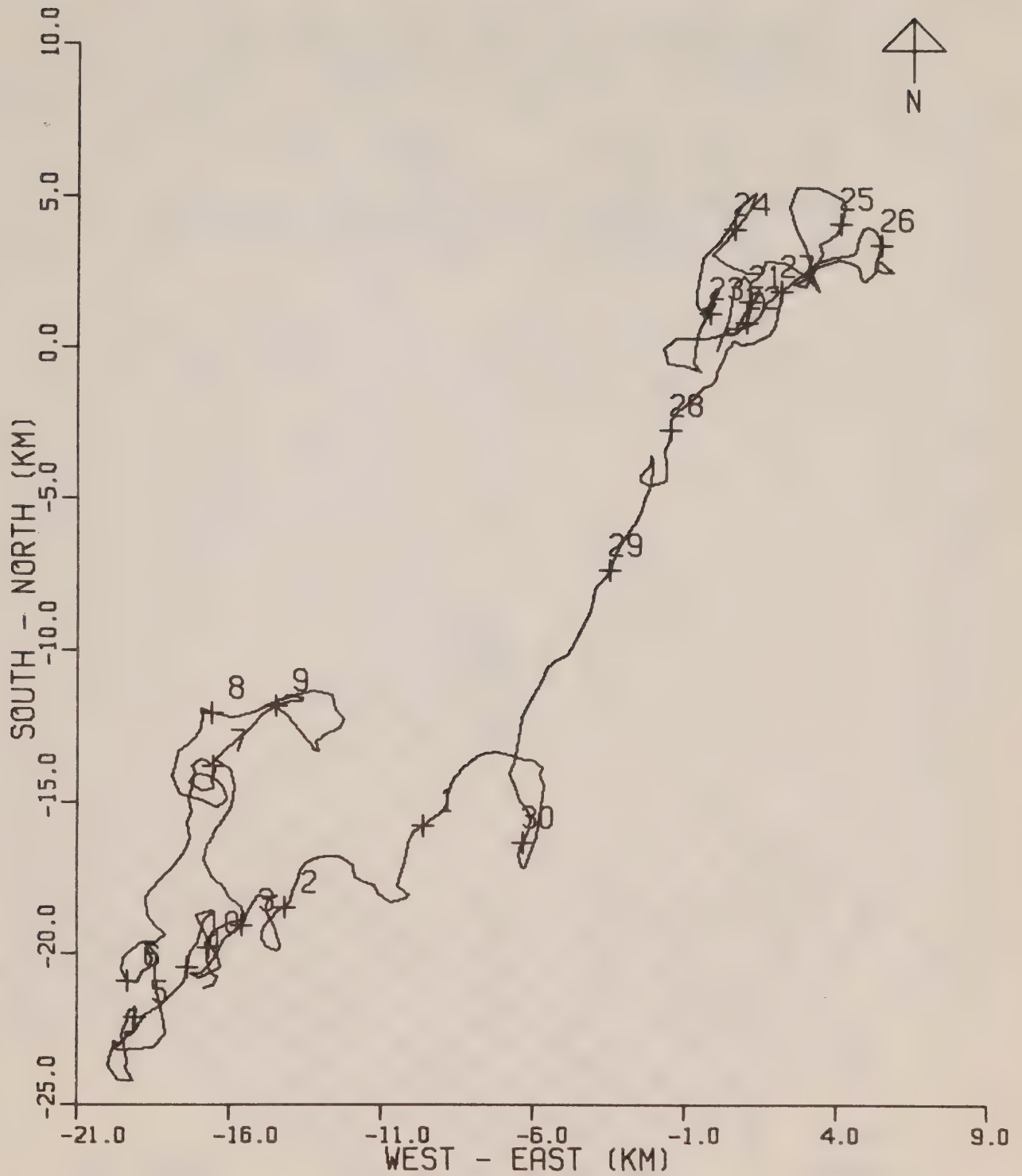
MEDIAN (PPT)	FREQUENCY NO. PCT ,	50 ,	100 ,	150 ,	200 ,	250 ,
29.01	0 0					
29.03	1 0					
29.05	1 0					
29.07	1 0					
29.09	3 0	*				
29.11	1 0					
29.13	4 0	*				
29.15	10 0	**				
29.17	6 0	*				
29.19	27 1	*****				
29.21	81 4	*****				
29.23	81 4	*****				
29.25	97 4	*****				
29.27	121 6	*****				
29.29	154 7	*****				
29.31	105 5	*****				
29.33	220 10	*****				
29.35	130 6	*****				
29.37	81 4	*****				
29.39	75 3	*****				
29.41	85 4	*****				
29.43	111 5	*****				
29.45	148 7	*****				
29.47	182 8	*****				
29.49	133 6	*****				
29.51	98 5	*****				
29.53	120 6	*****				
29.55	30 1	*****				
29.57	11 1	**				
29.59	25 1	*****				
29.61	5 0	*				
29.63	3 0	*				
29.65	8 0	**				
29.67	1 0					
29.69	0 0					
29.71	1 0					
29.73	0 0					
29.75	1 0					
29.77	0 0					
29.79	0 0					

NO. OF SAMPLES OVER 29.80 = 0

NO. OF SAMPLES UNDER 29.00 = 0

TOTAL NO. OF OBSERVATIONS = 2161

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

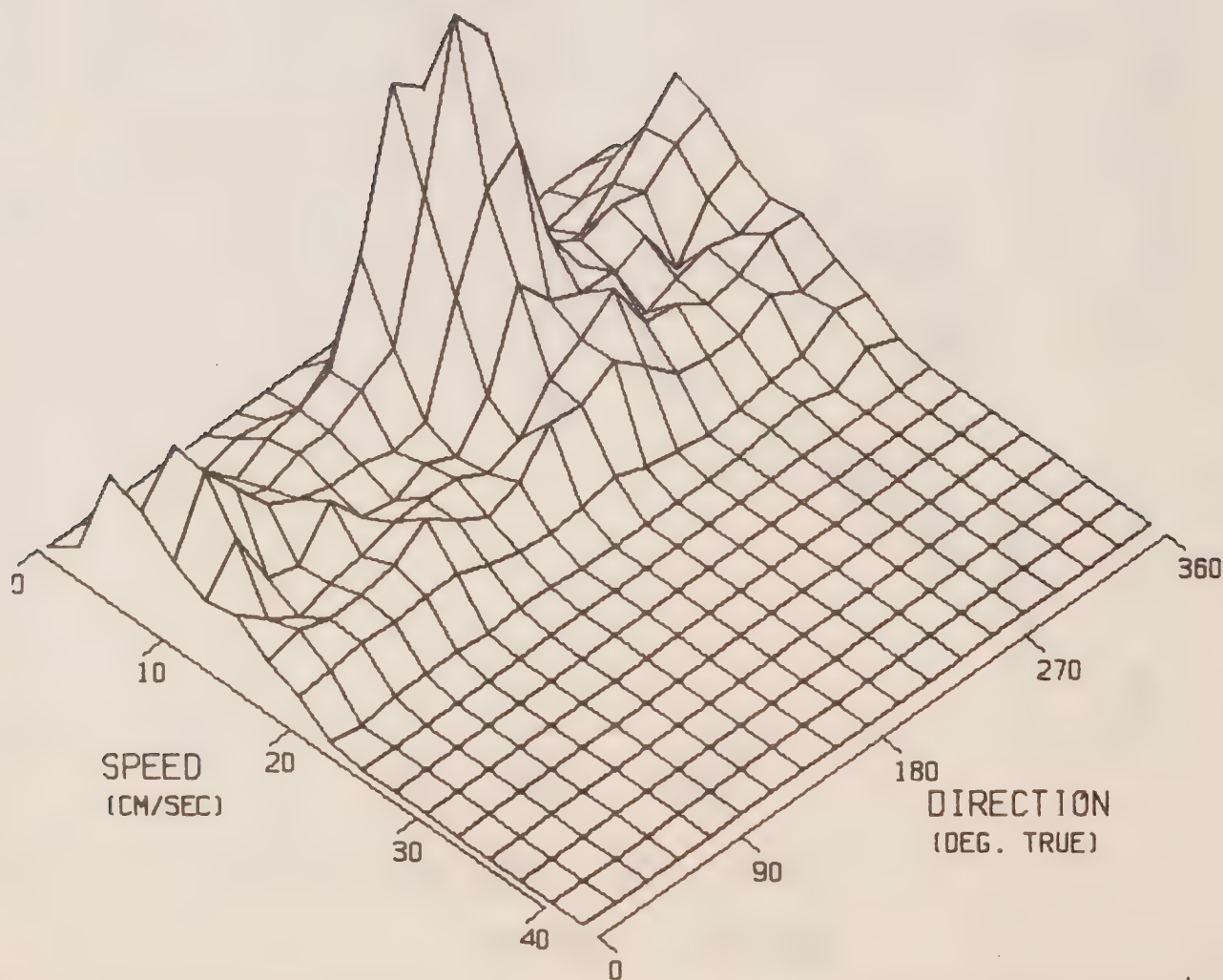
STARTING DATE: 20/ 9/73    ENDING DATE: 10/10/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 20/ 9/73

NO. OF SAMPLES = 2880



STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 20/ 9/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

DIR	000 TO 039	040 TO 079	080 TO 119	120 TO 159	160 TO 199	200 TO 239	240 TO 279	280 TO 319	320 TO 359	360 TO 399	400 TO 439	440 TO 479	
0- 14	007	044	044	025	017	003							140
15- 29	004	030	057	020	014	001							126
30- 44	003	033	034	010	016	005							101
45- 59	002	025	027	010	011	003							78
60- 74	002	016	020	013	014	007							72
75- 89	002	012	014	023	019	006							76
90-104	006	014	015	012	022	004							73
105-119	005	020	014	016	016	007							78
120-134	001	023	010	018	015	003							70
135-149	001	022	020	016	007	001							67
150-164	006	040	016	008	010	001							81
165-179	011	096	031	014	017								169
180-194	011	099	069	025	024	001							229
195-209	005	135	091	041	023	002							297
210-224	008	119	103	043	021	003							297
225-239	007	050	061	048	021								187
240-254	006	038	047	041	013								145
255-269	005	015	030	028	011								89
270-284	007	013	018	019	006	002							65
285-299	002	013	027	020	009	003							74
300-314	001	016	022	018	009	003							69
315-329	003	023	009	022	015	002							74
330-344	007	038	026	021	011	011							114
345-359	008	041	022	016	011	008							106
	120		827		352		0		0		0	0	2877
		975		527		76		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 20/09/73

MEDIAN (MM/S)	FREQUNCY NO. PCT	50	100	150	200	250
3	0 0	.	.	.	.	.
9	0 0					
15	2 0					
21	19 1	*****				
27	22 1	*****				
33	77 3	*****				
39	67 2	*****				
45	161 6	*****				
51	106 4	*****				
57	221 8	*****				
63	121 4	*****				
69	188 7	*****				
75	111 4	*****				
81	117 4	*****				
87	197 7	*****				
93	84 3	*****				
99	173 6	*****				
105	73 3	*****				
111	131 5	*****				
117	52 2	*****				
123	133 5	*****				
129	41 1	*****				
135	102 4	*****				
141	54 2	*****				
147	108 4	*****				
153	48 2	*****				
159	41 1	*****				
165	96 3	*****				
171	44 2	*****				
177	78 3	*****				
183	33 1	*****				
189	64 2	*****				
195	17 1	***				
201	36 1	*****				
207	22 1	****				
213	23 1	*****				
219	8 0	**				
225	5 0	*				
231	1 0					
237	1 0					

NO. OF SAMPLES OVER 240 = 3  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2880  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 20/09/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	90	3	*****	.	.	.	.
15	101	4	*****				
25	82	3	*****				
35	69	2	*****				
45	62	2	*****				
55	48	2	*****				
65	50	2	*****				
75	47	2	*****				
85	50	2	*****				
95	50	2	*****				
105	54	2	*****				
115	48	2	*****				
125	46	2	*****				
135	50	2	*****				
145	42	1	*****				
155	61	2	*****				
165	68	2	*****				
175	129	4	*****				
185	153	5	*****				
195	176	6	*****				
205	206	7	*****				
215	202	7	*****				
225	153	5	*****				
235	115	4	*****				
245	95	3	*****				
255	78	3	*****				
265	58	2	*****				
275	44	2	*****				
285	48	2	*****				
295	47	2	*****				
305	48	2	*****				
315	44	2	*****				
325	51	2	*****				
335	82	3	*****				
345	62	2	*****				
355	71	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2880  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-59 DEPTH 30M START DATE 20/09/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	50	100	150	200	250
8.31	0	0					
8.33	0	0					
8.35	4	0	*				
8.37	7	0	*				
8.39	36	1	*****				
8.41	82	3	*****				
8.43	93	3	*****				
8.45	149	5	*****				
8.47	0	0					
8.49	147	5	*****				
8.51	196	7	*****				
8.53	208	7	*****				
8.55	134	5	*****				
8.57	106	4	*****				
8.59	119	4	*****				
8.61	113	4	*****				
8.63	0	0					
8.65	137	5	*****				
8.67	122	4	*****				
8.69	106	4	*****				
8.71	106	4	*****				
8.73	193	7	*****				
8.75	158	5	*****				
8.77	167	6	*****				
8.79	0	0					
8.81	149	5	*****				
8.83	119	4	*****				
8.85	96	3	*****				
8.87	69	2	*****				
8.89	28	1	*****				
8.91	17	1	***				
8.93	6	0	*				
8.95	0	0					
8.97	7	0	*				
8.99	2	0					
9.01	0	0					
9.03	2	0					
9.05	1	0					
9.07	1	0					
9.09	0	0					

NO. OF SAMPLES OVER 9.10 = 0

NO. OF SAMPLES UNDER 8.30 = 0

TOTAL NO. OF OBSERVATIONS = 2880

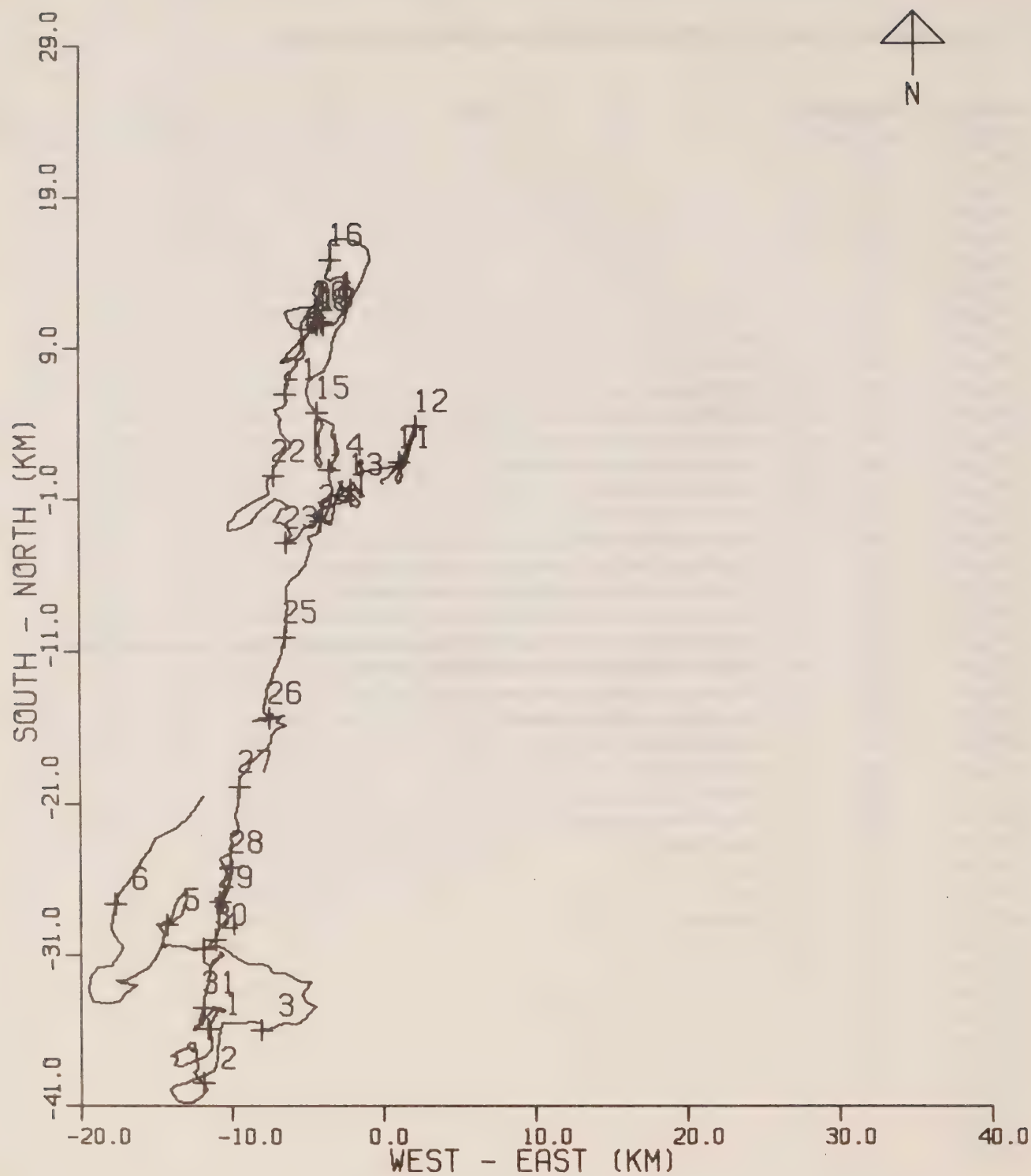
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS=58 DEPTH 30M START DATE 20/09/73

MEDIAN (PPT)	FREQUENCY NO. PCT	80	160	240	320	400
29.21	0 0	.	.	.	.	.
29.23	0 0					
29.25	0 0					
29.27	1 0					
29.29	5 0	*				
29.31	2 0					
29.33	16 1	**				
29.35	17 1	**				
29.37	41 1	*****				
29.39	77 3	*****				
29.41	163 6	*****				
29.43	98 3	*****				
29.45	136 5	*****				
29.47	99 3	*****				
29.49	98 3	*****				
29.51	96 3	*****				
29.53	254 9	*****				
29.55	223 8	*****				
29.57	148 5	*****				
29.59	377 13	*****				
29.61	219 8	*****				
29.63	161 6	*****				
29.65	132 5	*****				
29.67	84 3	*****				
29.69	65 2	*****				
29.71	32 1	****				
29.73	103 4	*****				
29.75	58 2	*****				
29.77	70 2	*****				
29.79	15 1	**				
29.81	50 2	*****				
29.83	20 1	***				
29.85	2 0					
29.87	4 0	*				
29.89	0 0					
29.91	2 0					
29.93	1 0					
29.95	0 0					
29.97	0 0					
29.99	0 0					

NO. OF SAMPLES OVER 30.00 = 11  
 NO. OF SAMPLES UNDER 29.20 = 0  
 TOTAL NO. OF OBSERVATIONS = 2880  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

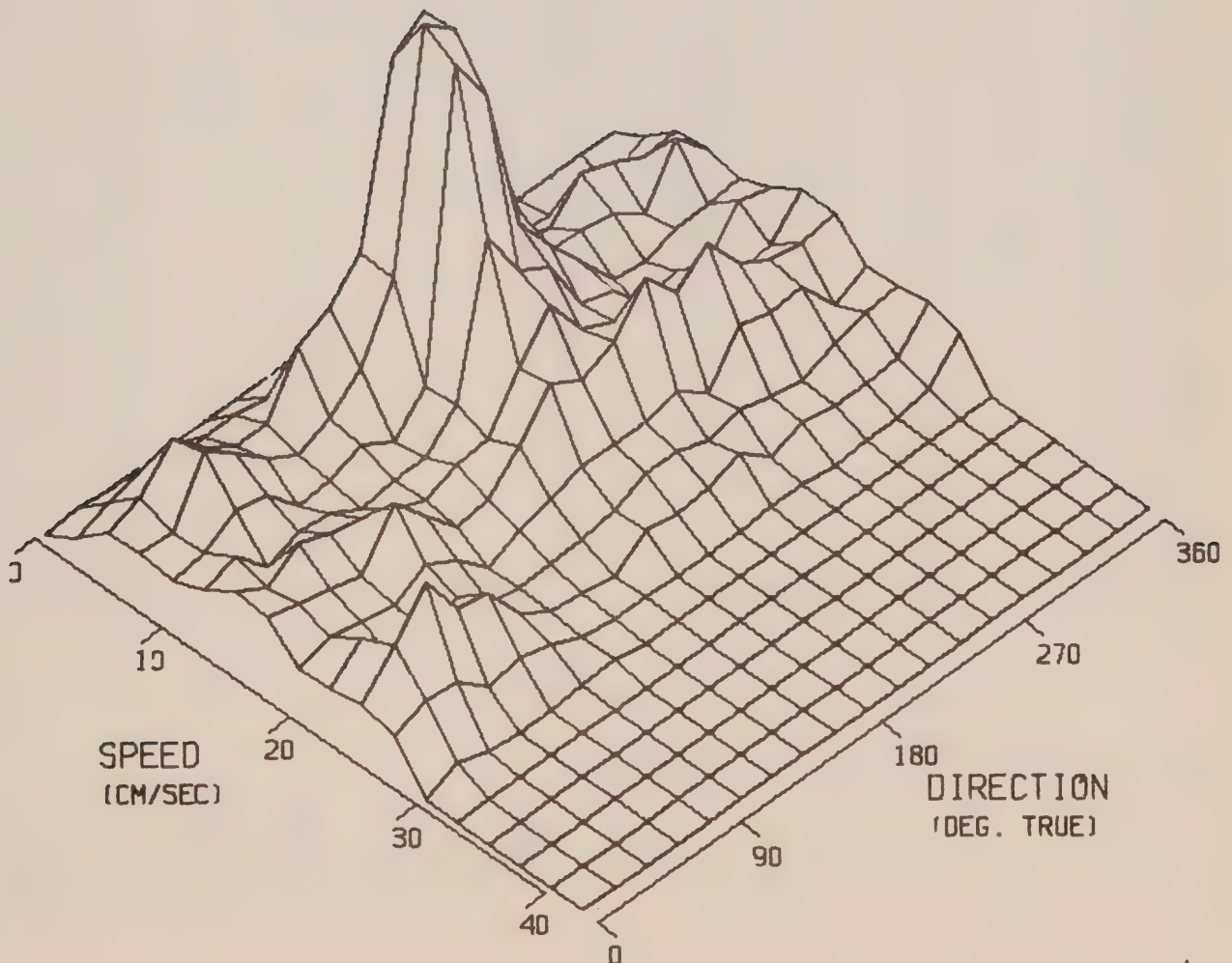
STARTING DATE: 10/10/73    ENDING DATE: 6/11/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 10/10/73

NO. OF SAMPLES = 3900





STN, NO, HS-5S DEPTH 30 M.

STARTING DATE:10/10/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	006	018	021	030	026	023	025	005				001	155
15- 29	007	022	016	026	016	025	034	006					152
30- 44	008	039	026	025	022	014	048	002					184
45- 59	007	033	030	025	020	015	028	002					160
60- 74	007	028	025	020	016	014	030						140
75- 89	007	018	011	021	035	016	022						130
90-104	009	016	012	018	022	012	011	002					102
105-119	005	024	019	011	009	004	008	003					83
120-134	006	035	014	012	010	004	001						82
135-149	006	045	014	018	010	009	002						104
150-164	009	053	021	016	018	006	002						125
165-179	015	104	097	039	021	010	004						290
180-194	006	144	164	055	034	011	005						419
195-209	011	136	112	057	029	015	005						365
210-224	008	091	078	044	023	013	005						262
225-239	003	069	045	031	047	017	007						219
240-254	010	026	036	029	032	012	008						153
255-269	006	022	028	024	036	007	003						126
270-284	003	019	015	020	046	011	005						119
285-299	002	020	017	013	043	008	005						108
300-314		029	013	012	032	009	004						99
315-329		020	011	017	027	013	005						93
330-344		024	011	020	020	015	004	001					95
345-359	002	023	026	029	017	016	012	001					126

143 862 611 283 0 0 0 3891  
1058 612 299 22 0 1

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 9

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 10/10/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
4	0	0	.	.	.	.	.
12	10	0	**				
20	13	0	***				
28	74	2	*****				
36	109	3	*****				
44	184	5	*****				
52	228	6	*****				
60	267	7	*****				
68	220	6	*****				
76	96	2	*****				
84	211	5	*****				
92	184	5	*****				
100	169	4	*****				
108	147	4	*****				
116	151	4	*****				
124	117	3	*****				
132	115	3	*****				
140	122	3	*****				
148	157	4	*****				
156	101	3	*****				
164	127	3	*****				
172	125	3	*****				
180	151	4	*****				
188	125	3	*****				
196	83	2	*****				
204	72	2	*****				
212	76	2	*****				
220	60	2	*****				
228	56	1	*****				
236	83	2	*****				
244	31	1	*****				
252	72	2	*****				
260	60	2	*****				
268	42	1	*****				
276	30	1	*****				
284	13	0	***				
292	6	0	*				
300	3	0	*				
308	0	0					
316	0	0					

NO. OF SAMPLES OVER 320 = 10  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3900  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 10/10/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	60	120	180	240	300
5	108	3	*****				
15	109	3	*****				
25	106	3	*****				
35	123	3	*****				
45	118	3	*****				
55	105	3	*****				
65	81	2	*****				
75	88	2	*****				
85	94	2	*****				
95	72	2	*****				
105	53	1	*****				
115	58	1	*****				
125	56	1	*****				
135	62	2	*****				
145	68	2	*****				
155	79	2	*****				
165	123	3	*****				
175	237	6	*****	*****			
185	280	7	*****	*****	*****		
195	241	6	*****	*****	*****		
205	252	6	*****	*****	*****		
215	184	5	*****	*****			
225	158	4	*****	*****			
235	136	3	*****	*****			
245	108	3	*****	*****			
255	84	2	*****				
265	82	2	*****				
275	84	2	*****				
285	73	2	*****				
295	70	2	*****				
305	68	2	*****				
315	57	1	*****				
325	68	2	*****				
335	54	1	*****				
345	89	2	*****				
355	72	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3900  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 10/10/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	90	180	270	360	450
8.02	0	0	.	.	.	.	.
8.06	0	0					
8.10	0	0					
8.14	0	0					
8.18	0	0					
8.22	0	0					
8.26	22	1	**				
8.30	90	2	*****				
8.34	297	8	*****				
8.38	168	4	*****				
8.42	349	9	*****				
8.46	189	5	*****				
8.50	316	8	*****				
8.54	337	9	*****				
8.58	194	5	*****				
8.62	100	3	*****				
8.66	121	3	*****				
8.70	145	4	*****				
8.74	348	9	*****				
8.78	223	6	*****				
8.82	265	7	*****				
8.86	162	4	*****				
8.90	174	4	*****				
8.94	86	2	*****				
8.98	156	4	*****				
9.02	68	2	*****				
9.06	61	2	*****				
9.10	10	0	*				
9.14	12	0	*				
9.18	3	0					
9.22	2	0					
9.26	0	0					
9.30	0	0					
9.34	1	0					
9.38	0	0					
9.42	0	0					
9.46	0	0					
9.50	0	0					
9.54	0	0					
9.58	0	0					

NO. OF SAMPLES OVER 9.60 = 0

NO. OF SAMPLES UNDER 8.00 = 1

TOTAL NO. OF OBSERVATIONS = 3900

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 30M START DATE 10/10/73

MEDIAN (PPT)	FREQUENCY		100	200	300	400	500
	NO.	PCT.	.	.	.	.	.
29.12	0	0					
29.16	1	0					
29.20	7	0	*				
29.24	4	0					
29.28	5	0	*				
29.32	8	0	*				
29.36	19	0	**				
29.40	59	2	*****				
29.44	97	2	*****				
29.48	165	4	*****				
29.52	160	4	*****				
29.56	155	4	*****				
29.60	304	8	*****				
29.64	199	5	*****				
29.68	372	10	*****				
29.72	343	9	*****				
29.76	394	10	*****				
29.80	485	12	*****				
29.84	211	5	*****				
29.88	199	5	*****				
29.92	99	3	*****				
29.96	133	3	*****				
30.00	130	3	*****				
30.04	196	5	*****				
30.08	52	1	*****				
30.12	21	1	**				
30.16	10	0	*				
30.20	1	0					
30.24	15	0	**				
30.28	0	0					
30.32	11	0	*				
30.36	4	0					
30.40	7	0	*				
30.44	4	0					
30.48	2	0					
30.52	1	0					
30.56	0	0					
30.60	0	0					
30.64	2	0					
30.68	1	0					

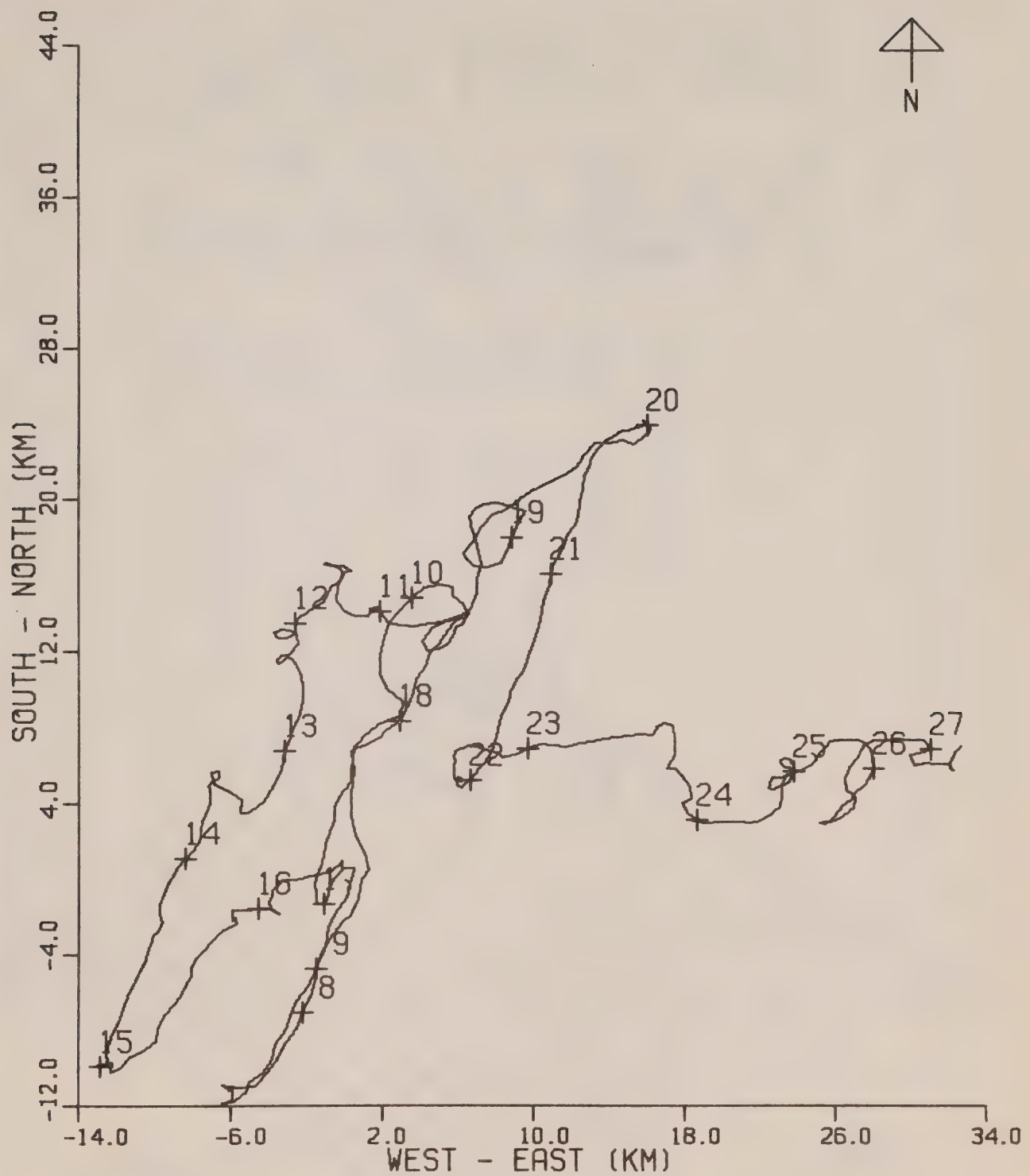
NO. OF SAMPLES OVER 30.70 = 18

NO. OF SAMPLES UNDER 29.10 = 6

TOTAL NO. OF OBSERVATIONS = 3900

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 7/11/73    ENDING DATE: 27/11/73

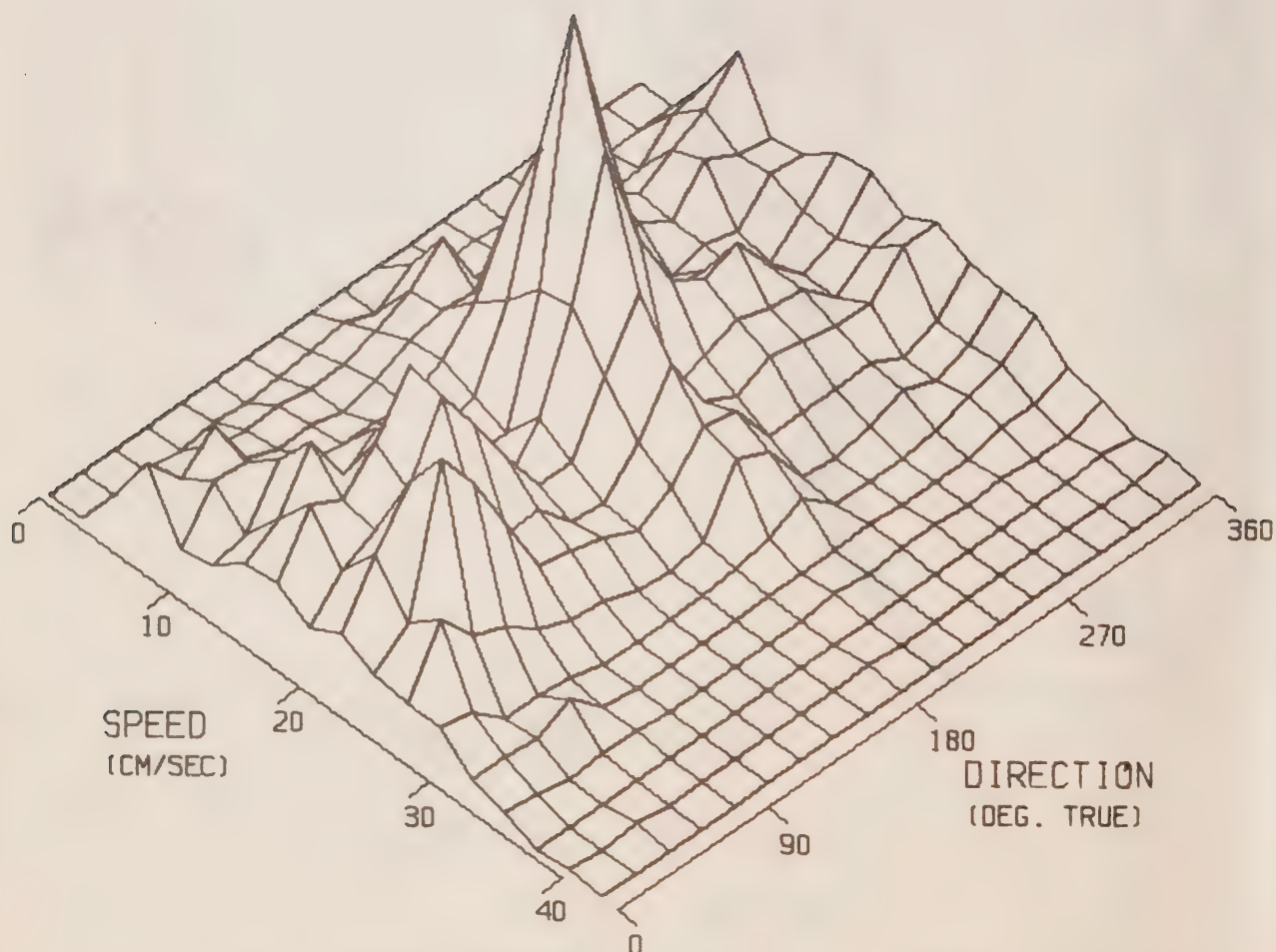
# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55

DEPTH 30 M.

STARTING DATE: 7/11/73

NO. OF SAMPLES = 2887



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 7/11/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED												
	000	040	080	120	160	200	240	280	320	360	400	440
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
DIR	039	079	119	159	199	239	279	319	359	399	439	479
0- 14		019	012	017	023	020	022	017	006			136
15- 29		012	022	027	033	034	029	017	003			177
30- 44		014	030	041	028	041	055	006	002		001	218
45- 59		013	016	024	032	033	038	008	003			167
60- 74	001	011	012	019	052	027	042	004	002			170
75- 89		005	010	017	053	041	023	003	001			153
90-104		007	006	024	040	024	012					113
105-119	001	006	013	021	019	020	008					88
120-134		005	006	006	012	019	014					62
135-149	002	005	005	009	005	006	005					37
150-164	002	013	010	007	010	005	005					52
165-179	001	011	027	019	021	013	002					94
180-194	002	012	026	064	050	028	013	001		001		197
195-209	004	018	040	095	068	030	028	004				287
210-224	001	004	053	075	039	014	027	007	001			221
225-239		011	033	032	024	017	004	002	001			124
240-254	001	010	021	029	023	014	003					101
255-269		009	019	013	018	017	004		001			81
270-284	001	003	014	010	018	014	005					65
285-299		008	012	009	020	011	007	002				69
300-314		004	011	003	011	009	006		001			45
315-329		008	018	001	006	009	003	004				49
330-344		014	010	012	007	019	002	010	002	001		77
345-359		025	015	019	017	009	008	007	003		001	104
	16		441		629		365		26		2	2887
	247			593		474		92		2		0

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 07/11/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	40	80	120	160	200
5	0 0	.	.	.	.	.
15	4 0	*				
25	4 0	*				
35	20 1	*****				
45	24 1	*****				
55	71 2	*****				
65	63 2	*****				
75	77 3	*****				
85	133 5	*****				
95	92 3	*****				
105	122 4	*****				
115	94 3	*****				
125	149 5	*****				
135	103 4	*****				
145	212 7	*****				
155	129 4	*****				
165	119 4	*****				
175	195 7	*****				
185	138 5	*****				
195	177 6	*****				
205	109 4	*****				
215	159 6	*****				
225	105 4	*****				
235	149 5	*****				
245	108 4	*****				
255	70 2	*****				
265	68 2	*****				
275	71 2	*****				
285	42 1	*****				
295	15 1	****				
305	22 1	*****				
315	13 0	***				
325	11 0	***				
335	7 0	**				
345	3 0	*				
355	5 0	*				
365	1 0					
375	0 0					
385	0 0					
395	2 0	*				

NO. OF SAMPLES OVER 400 = 1  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2887  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 07/11/73

MEDIAN (DEG.T)	FREQUENCY NO. PCT		50	100	150	200	250
5	101 3	*****	.	.	.	.	.
15	87 3	*****					
25	136 5	*****					
35	153 5	*****					
45	124 4	*****					
55	114 4	*****					
65	106 4	*****					
75	109 4	*****					
85	97 3	*****					
95	77 3	*****					
105	75 3	*****					
115	52 2	*****					
125	40 1	*****					
135	30 1	*****					
145	23 1	*****					
155	34 1	*****					
165	42 1	*****					
175	77 3	*****					
185	109 4	*****					
195	205 7	*****					
205	182 6	*****					
215	161 6	*****					
225	96 3	*****					
235	77 3	*****					
245	64 2	*****					
255	57 2	*****					
265	51 2	*****					
275	45 2	*****					
285	51 2	*****					
295	38 1	*****					
305	33 1	*****					
315	29 1	*****					
325	35 1	*****					
335	47 2	*****					
345	65 2	*****					
355	65 2	*****					
365	0 0						
375	0 0						
385	0 0						
395	0 0						

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2887  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5S DEPTH 30M START DATE 07/11/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT	60	120	180	240	300
8.36	7	0	*				
8.38	15	1	***				
8.40	0	0					
8.42	9	0	**				
8.44	12	0	**				
8.46	23	1	****				
8.48	18	1	***				
8.50	19	1	***				
8.52	34	1	*****				
8.54	18	1	***				
8.56	0	0					
8.58	30	1	*****				
8.60	26	1	****				
8.62	34	1	*****				
8.64	26	1	****				
8.66	33	1	*****				
8.68	75	3	*****				
8.70	70	2	*****				
8.72	0	0					
8.74	54	2	*****				
8.76	74	3	*****				
8.78	95	3	*****				
8.80	150	5	*****				
8.82	195	7	*****				
8.84	295	10	*****				
8.86	157	5	*****				
8.88	0	0					
8.90	131	5	*****				
8.92	112	4	*****				
8.94	140	5	*****				
8.96	143	5	*****				
8.98	153	5	*****				
9.00	174	6	*****				
9.02	209	7	*****				
9.04	0	0					
9.06	96	3	*****				
9.08	86	3	*****				
9.10	56	2	*****				
9.12	104	4	*****				
9.14	14	0	**				

NO. OF SAMPLES OVER 9.15 = 0  
 NO. OF SAMPLES UNDER 8.35 = 0  
 TOTAL NO. OF OBSERVATIONS = 2887  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 30M START DATE 07/11/73

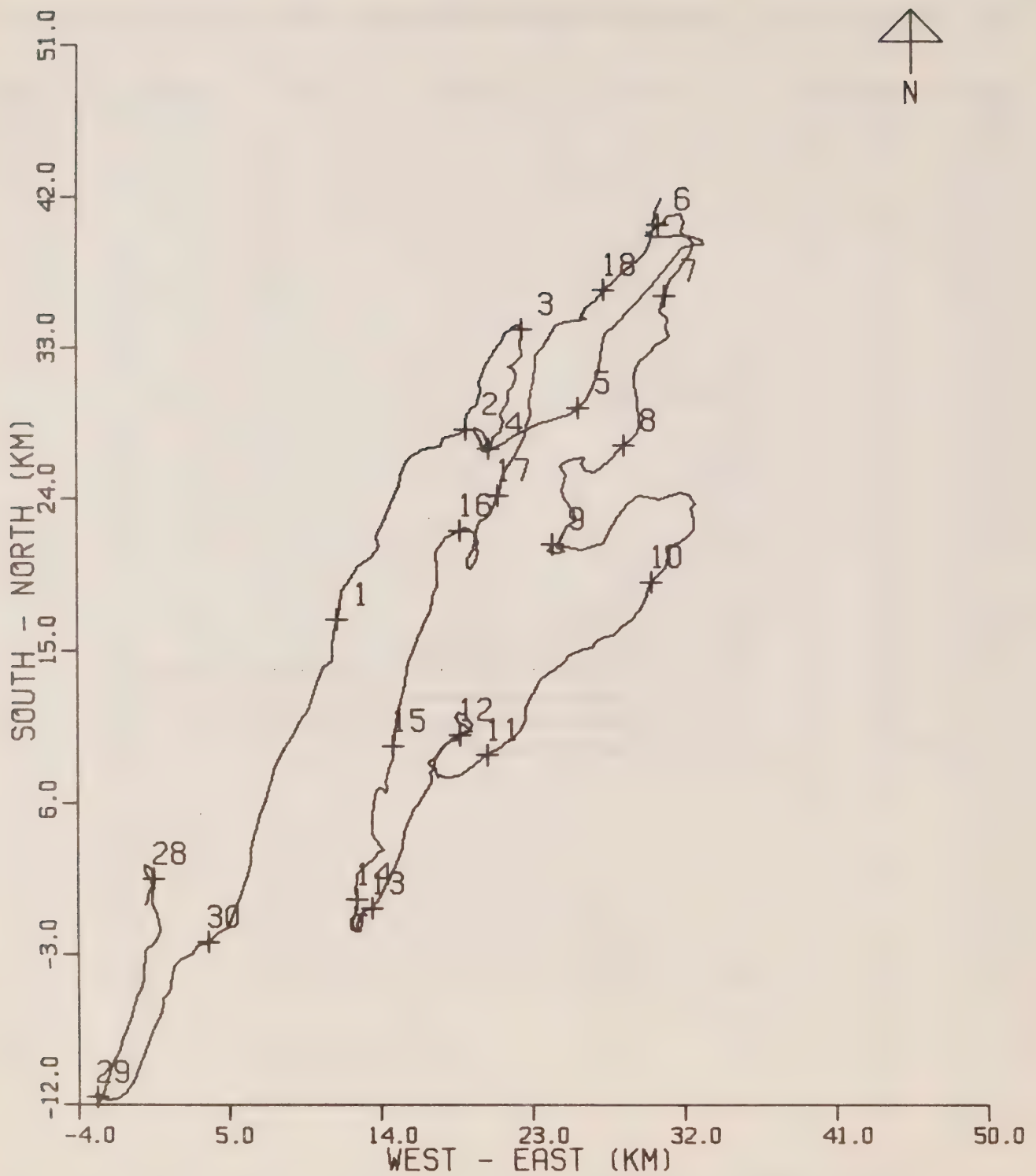
MEDIAN (PPT)	FREQUENCY NO.	PCT		100	200	300	400	500
				.	.	.	.	.
28.63	13	0	*					
28.69	4	0						
28.75	4	0						
28.81	8	0	*					
28.87	11	0	*					
28.93	5	0	*					
28.99	14	0	*					
29.05	9	0	*					
29.11	8	0	*					
29.17	25	1	***					
29.23	107	4	*****					
29.29	31	1	***					
29.35	54	2	*****					
29.41	57	2	*****					
29.47	70	2	*****					
29.53	56	2	*****					
29.59	116	4	*****					
29.65	97	3	*****					
29.71	104	4	*****					
29.77	171	6	*****					
29.83	264	9	*****					
29.89	434	15	*****					
29.95	441	15	*****					
30.01	376	13	*****					
30.07	215	7	*****					
30.13	56	2	*****					
30.19	2	0						
30.25	0	0						
30.31	0	0						
30.37	2	0						
30.43	8	0	*					
30.49	9	0	*					
30.55	12	0	*					
30.61	19	1	**					
30.67	4	0						
30.73	8	0	*					
30.79	33	1	***					
30.85	11	0	*					
30.91	28	1	***					
30.97	1	0						

NO. OF SAMPLES OVER 31.00 = 0

NO. OF SAMPLES UNDER 28.60 = 0

TOTAL NO. OF OBSERVATIONS = 2887

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

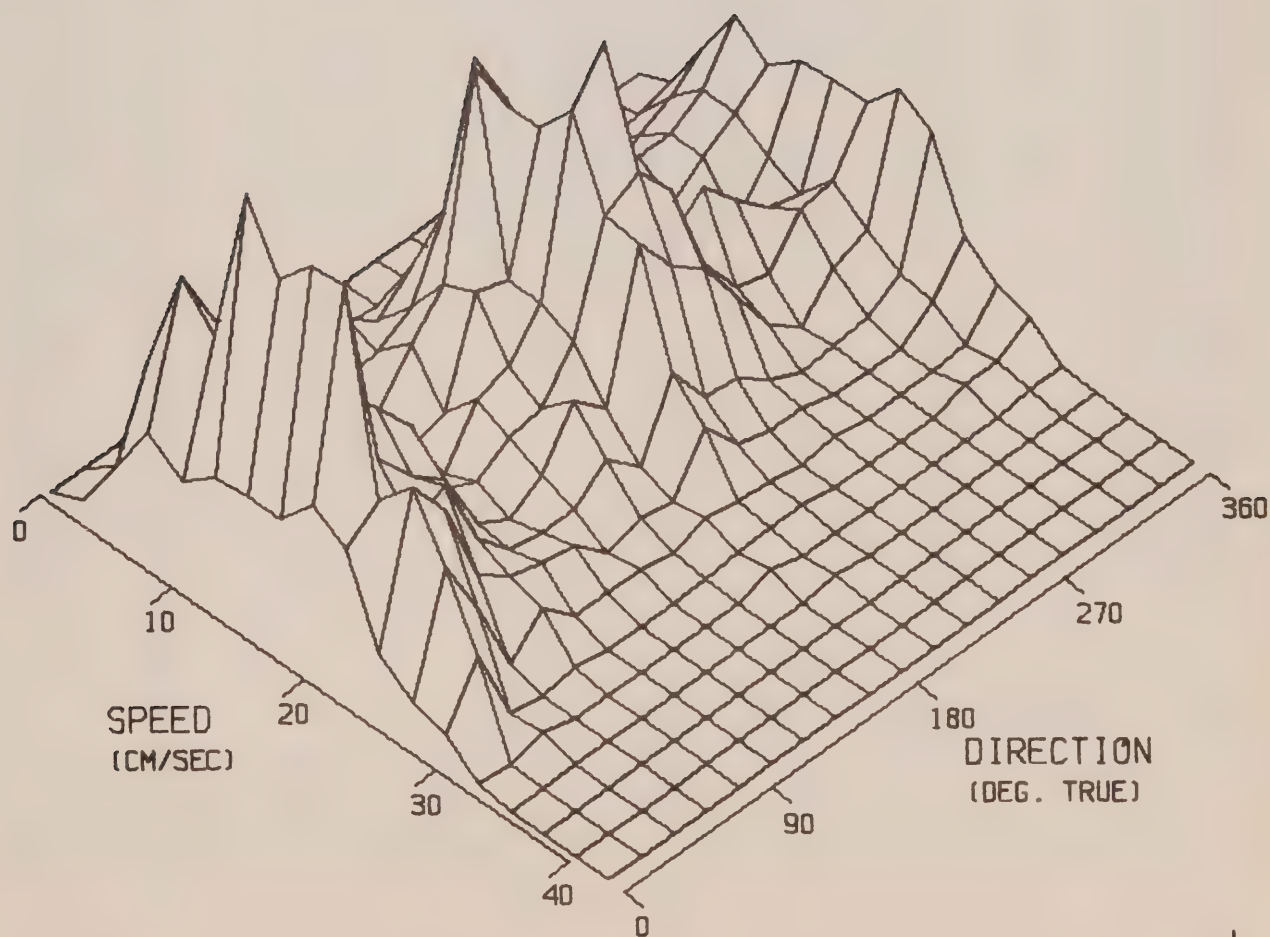
STARTING DATE: 27/11/73    ENDING DATE: 18/12/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 27/11/73

NO. OF SAMPLES = 3000



STN. NO. HS-55 DEPTH 30 M.

STARTING DATE: 27/11/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	002	033	033	054	061	046	024	013	001				267
15- 29	005	048	069	101	087	046	047	025					428
30- 44		028	057	026	054	026	037	008					236
45- 59	002	025	038	017	031	033	019	001					166
60- 74		020	016	023	036	026	013						134
75- 89		020	018	011	027	016	012	001					105
90-104	001	008	008	005	009	009	008						48
105-119	001	012	008	005	004	007	008						45
120-134		016	007	008	005	004	005						45
135-149	002	011	015	010	008	010	001	001					58
150-164	001	005	023	021	015	016	001						82
165-179		014	049	029	013	011	004	002					122
180-194		024	067	034	024	010	004	002	001				166
195-209		029	063	080	047	031	012	001					263
210-224		023	039	067	045	019	004	001					198
225-239		019	021	044	046	019	003						152
240-254		015	014	025	027	009	002						92
255-269		009	005	023	017	008	002						64
270-284		007	002	021	009	001							40
285-299		005	007	022	008	001							43
300-314	001	006	008	006	007								28
315-329		011	013	009	014	004		002					53
330-344	001	016	017	012	016	006	003	003					74
345-359	001	015	021	011	018	011	004	001					82
	17		618		628		213		2		0		2991
	419		664		369		61		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 9



## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 30M START DATE 27/11/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
4	0	0	.	.	.	.	.
12	2	0					
20	2	0					
28	8	0	**				
36	19	1	****				
44	46	2	*****				
52	78	3	*****				
60	93	3	*****				
68	118	4	*****				
76	70	2	*****				
84	159	5	*****				
92	148	5	*****				
100	107	4	*****				
108	111	4	*****				
116	93	3	*****				
124	133	4	*****				
132	122	4	*****				
140	131	4	*****				
148	158	5	*****				
156	120	4	*****				
164	106	4	*****				
172	109	4	*****				
180	152	5	*****				
188	130	4	*****				
196	131	4	*****				
204	107	4	*****				
212	102	3	*****				
220	61	2	*****				
228	72	2	*****				
236	48	2	*****				
244	40	1	*****				
252	54	2	*****				
260	42	1	*****				
268	30	1	*****				
276	26	1	*****				
284	24	1	*****				
292	22	1	****				
300	5	0	*				
308	5	0	*				
316	5	0	*				

NO. OF SAMPLES OVER 320 = 11  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 30M START DATE 27/11/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	60	120	180	240	300
5	176	6	*****				
15	269	9	*****				
25	270	9	*****				
35	166	6	*****				
45	131	4	*****				
55	99	3	*****				
65	100	3	*****				
75	70	2	*****				
85	66	2	*****				
95	40	1	*****				
105	25	1	****				
115	28	1	*****				
125	26	1	****				
135	38	1	*****				
145	43	1	*****				
155	51	2	*****				
165	73	2	*****				
175	84	3	*****				
185	104	3	*****				
195	153	5	*****				
205	171	6	*****				
215	142	5	*****				
225	114	4	*****				
235	89	3	*****				
245	68	2	*****				
255	51	2	*****				
265	37	1	*****				
275	29	1	*****				
285	27	1	*****				
295	28	1	*****				
305	15	1	***				
315	27	1	*****				
325	38	1	*****				
335	48	2	*****				
345	51	2	*****				
355	53	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 27/11/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT	70	140	210	280	350
8.31	0	0	.	.	.	.	.
8.33	3	0					
8.35	10	0	*				
8.37	43	1	*****				
8.39	24	1	***				
8.41	93	3	*****				
8.43	86	3	*****				
8.45	130	4	*****				
8.47	0	0					
8.49	132	4	*****				
8.51	96	3	*****				
8.53	127	4	*****				
8.55	97	3	*****				
8.57	115	4	*****				
8.59	92	3	*****				
8.61	137	5	*****				
8.63	0	0					
8.65	154	5	*****				
8.67	128	4	*****				
8.69	161	5	*****				
8.71	200	7	*****				
8.73	150	5	*****				
8.75	184	6	*****				
8.77	162	5	*****				
8.79	0	0					
8.81	155	5	*****				
8.83	94	3	*****				
8.85	91	3	*****				
8.87	99	3	*****				
8.89	92	3	*****				
8.91	43	1	*****				
8.93	33	1	*****				
8.95	0	0					
8.97	21	1	***				
8.99	24	1	***				
9.01	21	1	***				
9.03	2	0					
9.05	1	0					
9.07	0	0					
9.09	0	0					

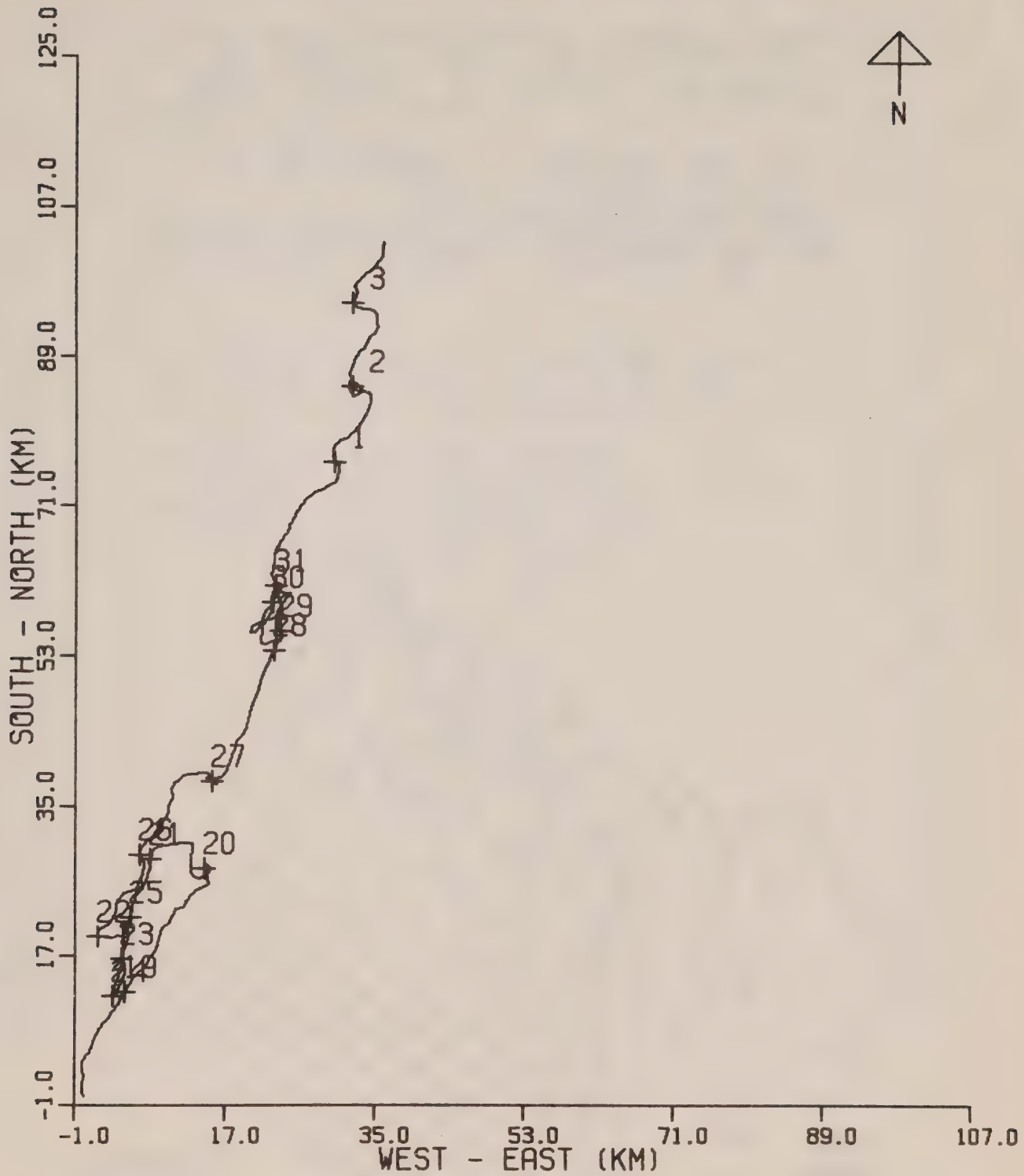
NO. OF SAMPLES OVER 9.10 = 0  
 NO. OF SAMPLES UNDER 8.30 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 30M START DATE 27/11/73

MEDIAN (PPT)	FREQUENCY NO.	PCT .	100 .	200 .	300 .	400 .	500 .
28.63	0	0					
28.69	0	0					
28.75	0	0					
28.81	3	0					
28.87	1	0					
28.93	4	0					
28.99	11	0	*				
29.05	16	1	**				
29.11	41	1	****				
29.17	36	1	****				
29.23	32	1	***				
29.29	59	2	*****				
29.35	37	1	****				
29.41	66	2	*****				
29.47	90	3	*****				
29.53	91	3	*****				
29.59	182	6	*****				
29.65	355	12	*****				
29.71	395	13	*****				
29.77	475	16	*****				
29.83	430	14	*****				
29.89	396	13	*****				
29.95	204	7	*****				
30.01	27	1	***				
30.07	11	0	*				
30.13	5	0	*				
30.19	8	0	*				
30.25	9	0	*				
30.31	0	0					
30.37	2	0					
30.43	0	0					
30.49	0	0					
30.55	2	0					
30.61	0	0					
30.67	8	0	*				
30.73	2	0					
30.79	1	0					
30.85	0	0					
30.91	0	0					
30.97	1	0					

NO. OF SAMPLES OVER 31.00 = 0  
 NO. OF SAMPLES UNDER 28.60 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 30 M.

STARTING DATE: 18/12/73    ENDING DATE: 3/ 1/74

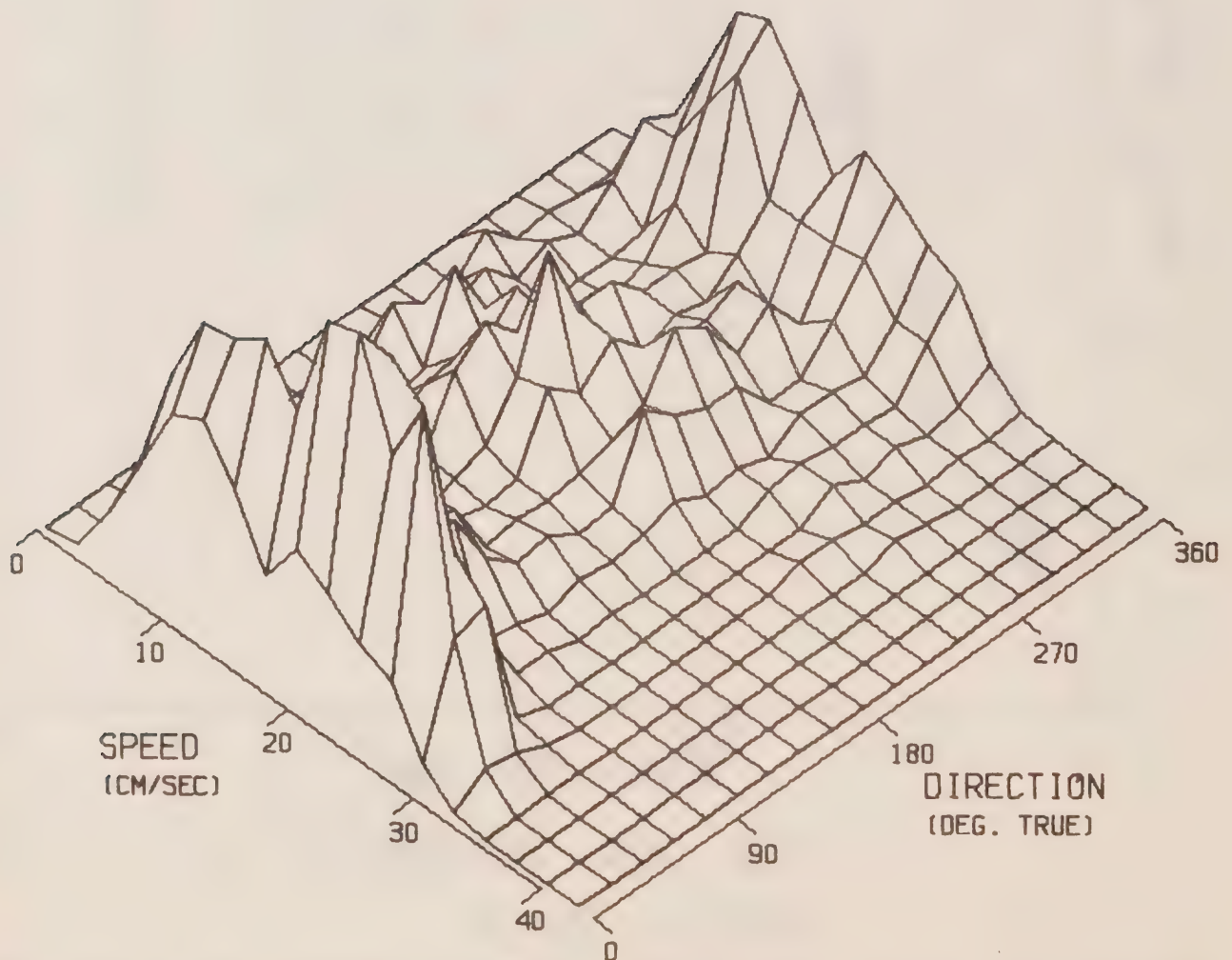


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 30 M.

STARTING DATE: 18/12/73

NO. OF SAMPLES = 2343



STN. NO. HS-5S DEPTH 30 M.

STARTING DATE: 18/12/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	001	026	072	059	041	038	028	017					282
15- 29		031	050	066	064	085	077	037					410
30- 44	001	010	016	027	040	076	062	042	001				275
45- 59		002	009	011	024	045	026	011	001				129
60- 74			005	012	015	027	012	003					74
75- 89		001	005	010	014	023	004						57
90-104				010	017	014	004						45
105-119			002	004	012	007	001						26
120-134			005	004	007	008	002						26
135-149			004	007	003	008	003						25
150-164		003	017	007	001	005							33
165-179		008	013	023	011	005	004						64
180-194		012	021	022	015	013	005						88
195-209	001	019	016	032	014	015	001						98
210-224		011	022	027	017	012	001		002				92
225-239		006	006	014	022	018	002	001	001				70
240-254		002	008	012	014	011	004	002					53
255-269	006	001	003	008	013	015	002	004	003				55
270-284		004	002	010	013	006	006	002	001				44
285-299		002	002	009	012	005	006	002					38
300-314	001	002	009	004	012	006	003	004					41
315-329		007	008	011	005	011	004	004					50
330-344		013	035	028	017	018	010	006					127
345-359		022	029	029	017	018	022	004					141
	10		359		420		289		9		0		2343
		182		446		489		139		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30M START DATE 18/12/73

MEDIAN (MM/S)	FREQUNCY NO. PCT	30	60	90	120	150
4	0 0	.	.	.	.	.
12	2 0	*				
20	1 0					
28	4 0	*				
36	6 0	**				
44	25 1	*****				
52	47 2	*****				
60	42 2	*****				
68	43 2	*****				
76	22 1	*****				
84	40 2	*****				
92	54 2	*****				
100	76 3	*****				
108	79 3	*****				
116	110 5	*****				
124	83 4	*****				
132	100 4	*****				
140	102 4	*****				
148	86 4	*****				
156	75 3	*****				
164	77 3	*****				
172	65 3	*****				
180	75 3	*****				
188	98 4	*****				
196	105 4	*****				
204	116 5	*****				
212	113 5	*****				
220	127 5	*****				
228	101 4	*****				
236	78 3	*****				
244	29 1	*****				
252	59 3	*****				
260	54 2	*****				
268	50 2	*****				
276	51 2	*****				
284	56 2	*****				
292	31 1	*****				
300	25 1	*****				
308	15 1	*****				
316	12 1	****				

NO. OF SAMPLES OVER 320 = 9  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2343  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 18/12/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	60	120	180	240	300
5	178	8	*****				
15	252	11	*****				
25	290	12	*****				
35	197	8	*****				
45	113	5	*****				
55	70	3	*****				
65	54	2	*****				
75	39	2	*****				
85	35	1	*****				
95	32	1	*****				
105	25	1	****				
115	15	1	***				
125	14	1	**				
135	21	1	****				
145	16	1	***				
155	21	1	****				
165	34	1	*****				
175	45	2	*****				
185	53	2	*****				
195	68	3	*****				
205	66	3	*****				
215	64	3	*****				
225	47	2	*****				
235	49	2	*****				
245	36	2	*****				
255	40	2	*****				
265	32	1	*****				
275	23	1	****				
285	29	1	*****				
295	29	1	*****				
305	30	1	*****				
315	26	1	****				
325	37	2	*****				
335	71	3	*****				
345	105	4	*****				
355	87	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2343  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 18/12/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT	80	160	240	320	400
8.01	0	0	.	.	.	.	.
8.03	0	0					
8.05	1	0					
8.07	4	0	*				
8.09	33	1	****				
8.11	27	1	***				
8.13	14	1	**				
8.15	0	0					
8.17	17	1	**				
8.19	7	0	*				
8.21	7	0	*				
8.23	13	1	**				
8.25	329	14	*****				
8.27	411	18	*****				
8.29	429	18	*****				
8.31	0	0					
8.33	79	3	*****				
8.35	16	1	**				
8.37	18	1	**				
8.39	30	1	****				
8.41	13	1	**				
8.43	16	1	**				
8.45	32	1	****				
8.47	0	0					
8.49	47	2	*****				
8.51	65	3	*****				
8.53	89	4	*****				
8.55	67	3	*****				
8.57	85	4	*****				
8.59	80	3	*****				
8.61	39	2	*****				
8.63	0	0					
8.65	92	4	*****				
8.67	106	5	*****				
8.69	121	5	*****				
8.71	36	2	*****				
8.73	7	0	*				
8.75	0	0					
8.77	1	0					
8.79	0	0					

NO. OF SAMPLES OVER 8.80 = 12

NO. OF SAMPLES UNDER 8.00 = 0

TOTAL NO. OF OBSERVATIONS = 2343

SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 30M START DATE 18/12/73

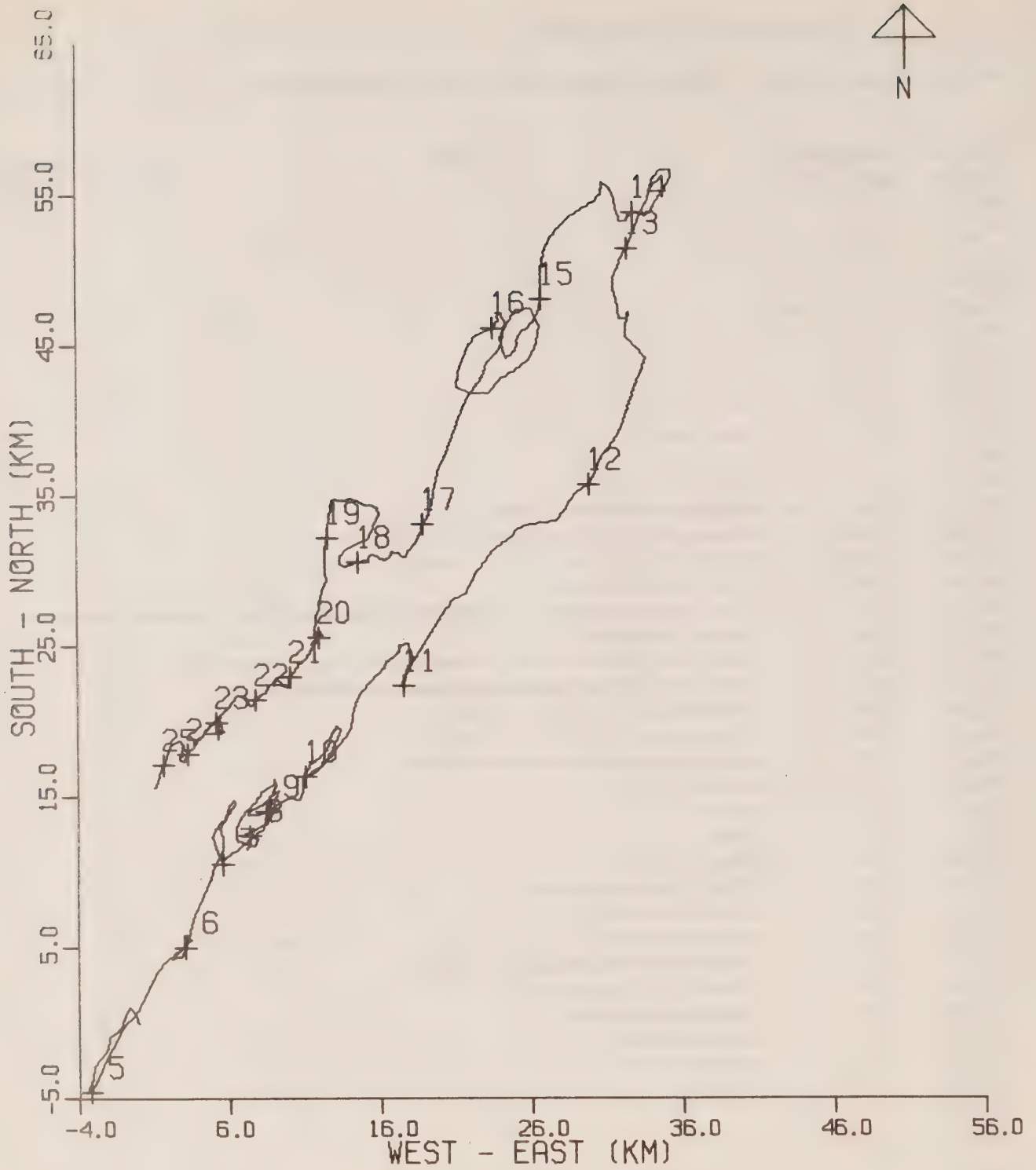
MEDIAN (PPT)	FREQUNCY NO, PCT	60	120	180	240	300
29.21	0 0	.	.	.	.	.
29.23	0 0					
29.25	0 0					
29.27	0 0					
29.29	2 0					
29.31	12 1	**				
29.33	1 0					
29.35	7 0	*				
29.37	10 0	**				
29.39	40 2	*****				
29.41	6 0	*				
29.43	36 2	*****				
29.45	99 4	*****				
29.47	42 2	*****				
29.49	7 0	*				
29.51	86 4	*****				
29.53	352 15	*****				
29.55	66 3	*****				
29.57	227 10	*****				
29.59	200 9	*****				
29.61	118 5	*****				
29.63	50 2	*****				
29.65	137 6	*****				
29.67	54 2	*****				
29.69	25 1	****				
29.71	17 1	***				
29.73	49 2	*****				
29.75	91 4	*****				
29.77	67 3	*****				
29.79	66 3	*****				
29.81	145 6	*****				
29.83	98 4	*****				
29.85	76 3	*****				
29.87	63 3	*****				
29.89	51 2	*****				
29.91	25 1	****				
29.93	1 0					
29.95	0 0					
29.97	0 0					
29.99	0 0					

NO. OF SAMPLES OVER 30.00 = 17

NO. OF SAMPLES UNDER 29.20 = 0

TOTAL NO. OF OBSERVATIONS = 2343

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5

DEPTH 30M

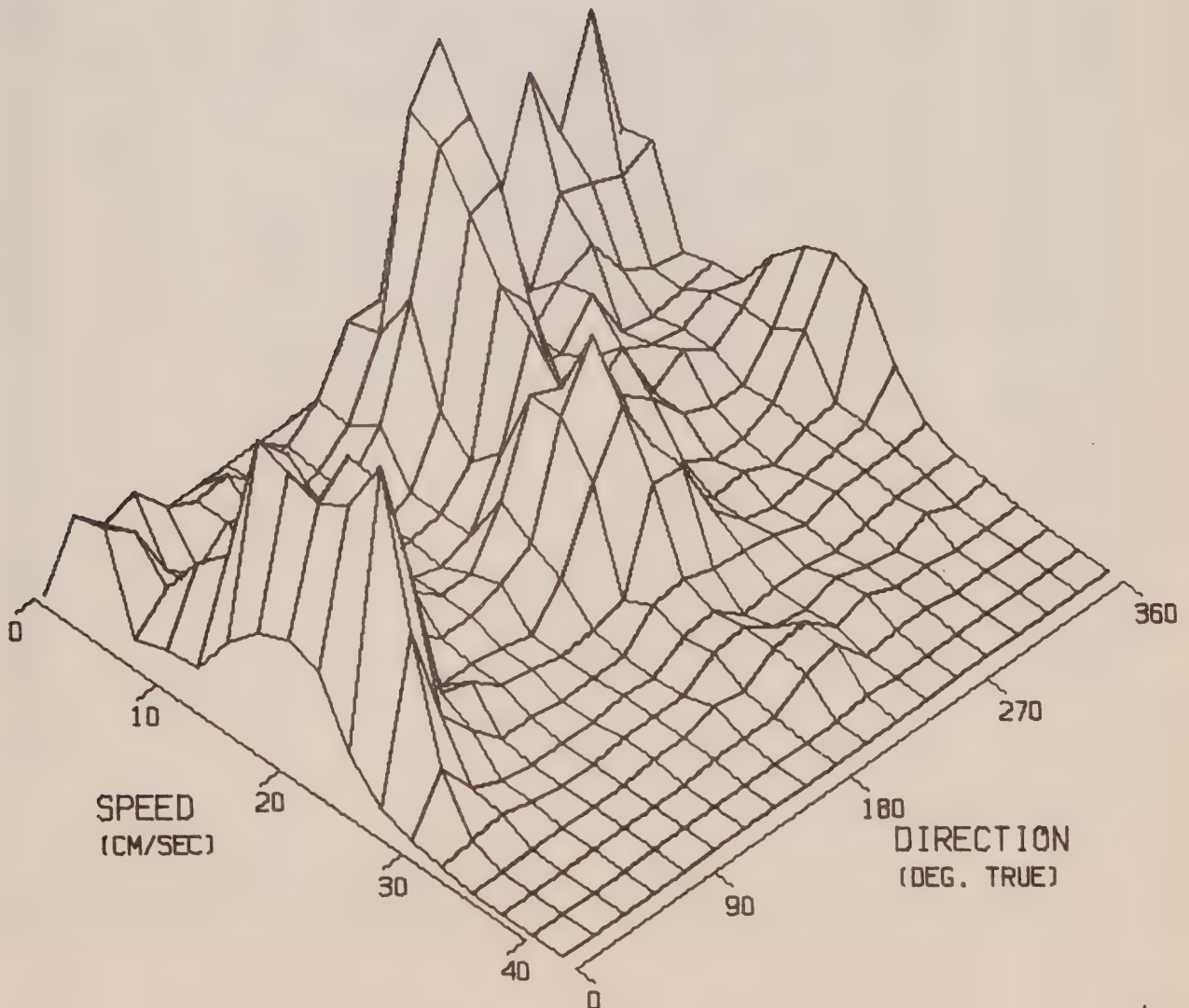
STARTING DATE: 4/ 1/74    ENDING DATE: 25/ 1/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5      DEPTH 30M

STARTING DATE: 4/ 1/74

NO. OF SAMPLES = 2991



STN. 00, HS-5

DEPTH 30M

STARTING DATE: 4/ 1/74

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	015	027	012	018	031	035	019	005					162
15- 29	010	011	027	062	054	062	079	019	001				325
30- 44	010	008	014	041	052	067	043	009					244
45- 59	011	002	017	024	049	038	016	004					161
60- 74	005	002	003	013	022	018	013		001				77
75- 89	005	006	004	010	016	003	006						50
90-104	005	002	003	007	011	004	003						35
105-119	002	001	003	006	004	004	002		001				23
120-134	002	003	001	001	004	002	001		001	001			16
135-149	003	003	002	001	005	003		001	002				20
150-164	007	013	001	004	016	006		001	001	001			50
165-179	009	026	012	007	027	020	002	003	002				108
180-194	015	047	025	028	031	036	008	006	010	002			208
195-209	017	085	062	042	038	037	026	005	006	004			322
210-224	023	107	067	040	035	028	017	001	006	006			330
225-239	009	055	020	012	019	011	014	001	004	002			147
240-254	021	038	015	018	018	004	006	002	005				127
255-269	012	020	012	021	008	003	001	003	004	001			85
270-284	018	017	018	012	005	001	001		002	001			75
285-299	023	023	014	008	005	003		001	001				78
300-314	033	021	007	009	001	002	007	002					82
315-329	020	025	007	009	004	003	003	002	003				76
330-344	038	011	007	013	011	008	005	001					94
345-359	021	020	005	012	016	016	004	001	001				96
	334		358		482		276		51		0		2991
		573		418		414		67		18		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 30M START DATE 04/01/74

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
5	0	0	.	.	.	.	.
15	117	4	*****				
25	118	4	*****				
35	149	5	*****				
45	111	4	*****				
55	199	7	*****				
65	112	4	*****				
75	101	3	*****				
85	103	3	*****				
95	77	3	*****				
105	110	4	*****				
115	68	2	*****				
125	100	3	*****				
135	74	2	*****				
145	141	5	*****				
155	103	3	*****				
165	98	3	*****				
175	135	5	*****				
185	106	4	*****				
195	143	5	*****				
205	103	3	*****				
215	142	5	*****				
225	90	3	*****				
235	106	4	*****				
245	75	3	*****				
255	71	2	*****				
265	74	2	*****				
275	29	1	*****				
285	28	1	*****				
295	17	1	***				
305	15	1	***				
315	8	0	**				
325	9	0	**				
335	18	1	****				
345	7	0	*				
355	17	1	***				
365	6	0	*				
375	8	0	**				
385	3	0	*				
395	1	0					

NO. OF SAMPLES OVER 400 = 1  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2993  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 30M START DATE 04/01/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	110	4	*****				
15	135	5	*****				
25	265	9	*****				
35	167	6	*****				
45	133	4	*****				
55	87	3	*****				
65	51	2	*****				
75	42	1	*****				
85	34	1	*****				
95	23	1	*****				
105	19	1	****				
115	14	0	***				
125	8	0	**				
135	14	0	***				
145	13	0	***				
155	41	1	*****				
165	34	1	*****				
175	94	3	*****				
185	125	4	*****				
195	206	7	*****				
205	215	7	*****				
215	222	7	*****				
225	152	5	*****				
235	85	3	*****				
245	83	3	*****				
255	70	2	*****				
265	58	2	*****				
275	43	1	*****				
285	48	2	*****				
295	59	2	*****				
305	60	2	*****				
315	47	2	*****				
325	49	2	*****				
335	64	2	*****				
345	69	2	*****				
355	54	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2993  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5S DEPTH 30M START DATE 04/01/74

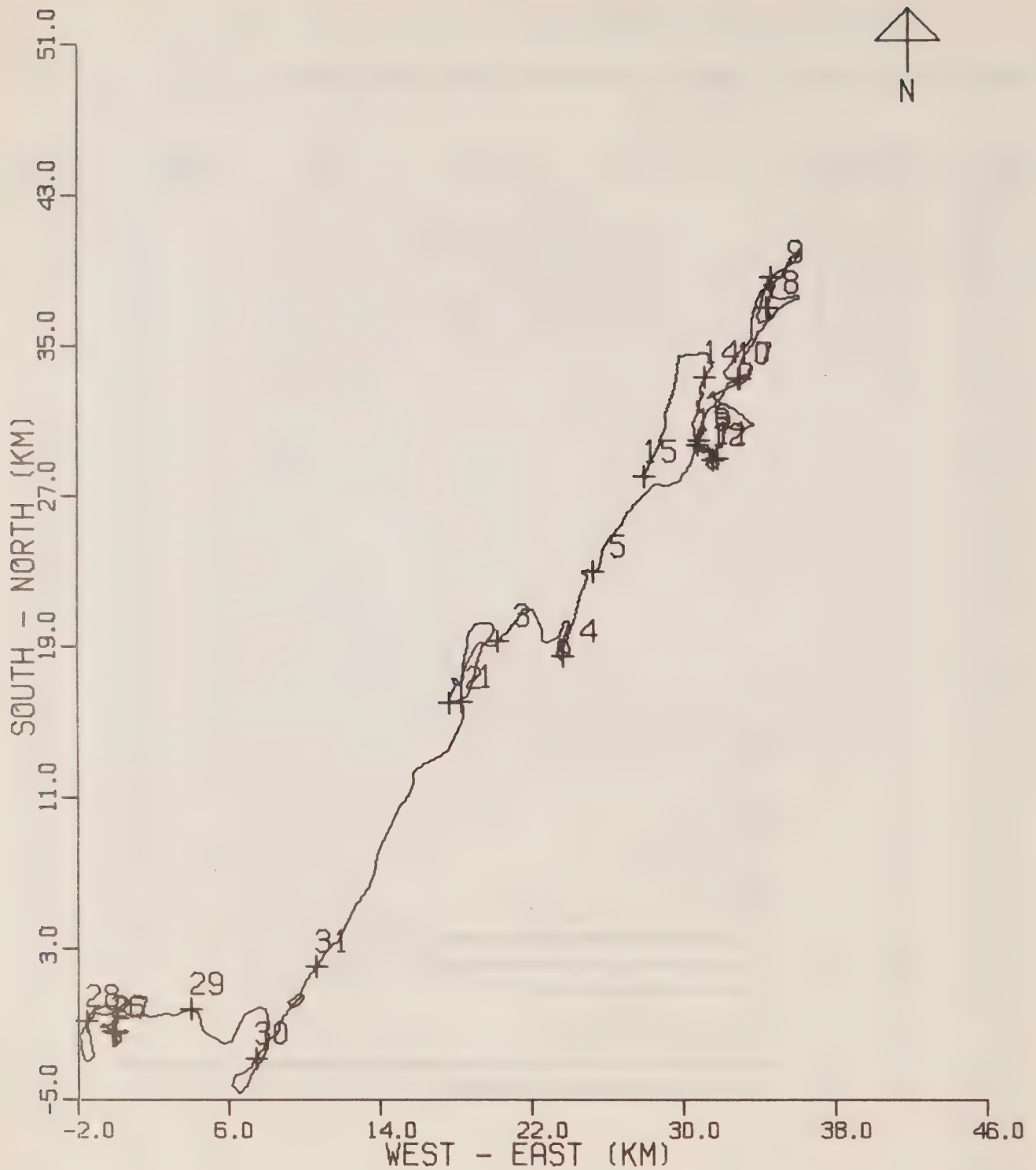
MEDIAN (DEG.C)	FREQINCY NO.	PCT .	120 .	240 .	360 .	480 .	600 .
6.13	0	0					
6.19	0	0					
6.25	0	0					
6.31	8	0	*				
6.37	31	1	***				
6.43	112	4	*****				
6.49	34	1	***				
6.55	11	0	*				
6.61	5	0					
6.67	9	0	*				
6.73	12	0	*				
6.79	9	0	*				
6.85	5	0					
6.91	8	0	*				
6.97	10	0	*				
7.03	8	0	*				
7.09	13	0	*				
7.15	3	0					
7.21	10	0	*				
7.27	9	0	*				
7.33	13	0	*				
7.39	31	1	***				
7.45	29	1	**				
7.51	47	2	****				
7.57	89	3	*****				
7.63	89	3	*****				
7.69	121	4	*****				
7.75	70	2	*****				
7.81	219	7	*****				
7.87	365	12	*****				
7.93	286	10	*****				
7.99	200	7	*****				
8.05	142	5	*****				
8.11	181	6	*****				
8.17	536	18	*****				
8.23	278	9	*****				
8.29	0	0					
8.35	0	0					
8.41	0	0					
8.47	0	0					

NO. OF SAMPLES OVER 8.50 = 0

NO. OF SAMPLES UNDER 6.10 = 0

TOTAL NO. OF OBSERVATIONS = 2993

SAMPLE INTERVAL = 10 MINUTES



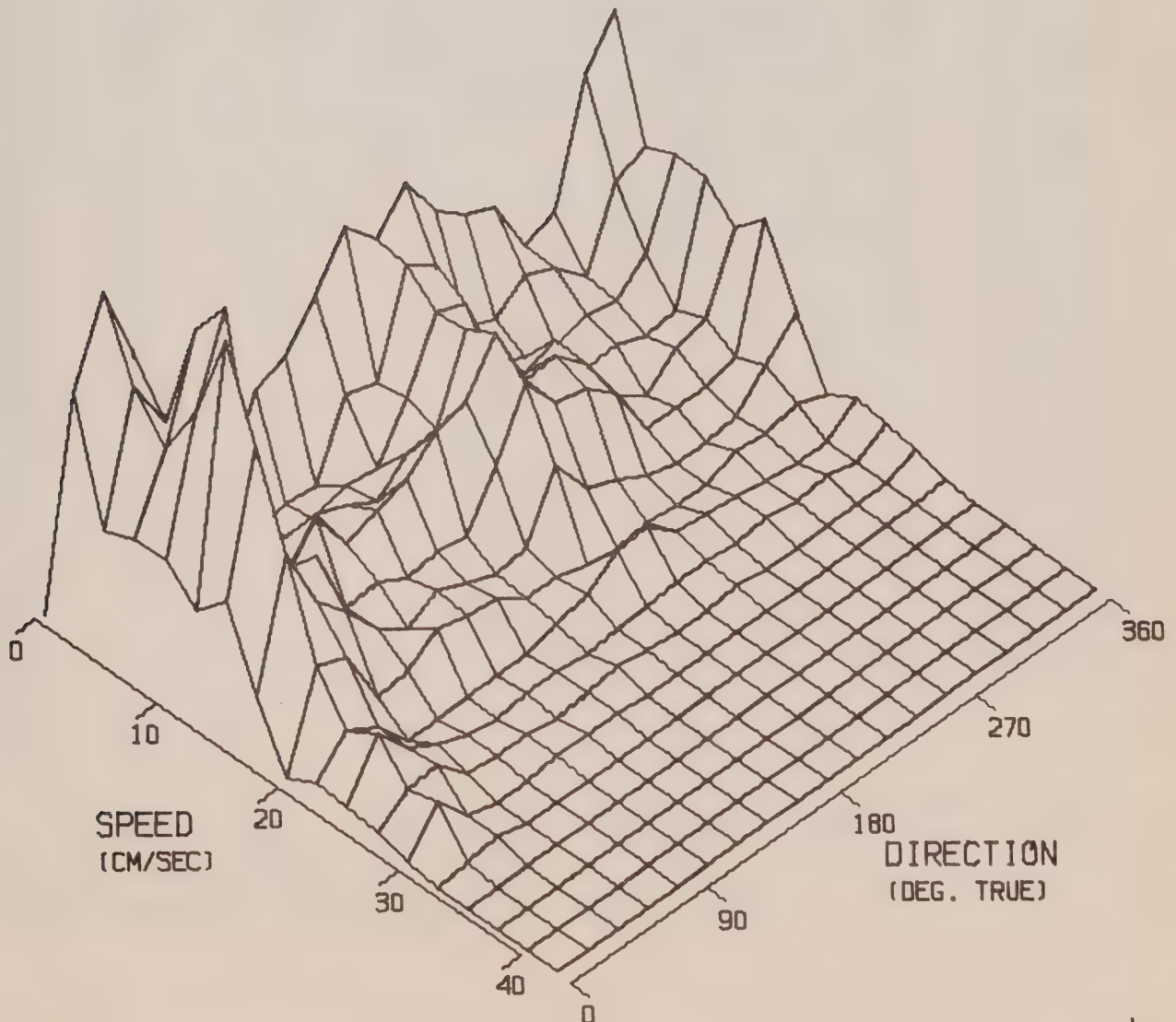
STN. NO. HS-5

DEPTH 30M

STARTING DATE: 25/ 1/74    ENDING DATE: 15/ 2/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO.: HS-5      DEPTH 30M  
STARTING DATE: 25/ 1/74  
NO. OF SAMPLES = 3000



STN. NO. HS-5

DEPTH 30M

STARTING DATE: 25/ 1/74

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	043	046	047	042	022	003	011	003					217
15- 29	062	071	089	094	043	018	018	007					402
30- 44	046	072	102	045	027	015	013	009					329
45- 59	021	039	037	030	025	006	004	001					163
60- 74	012	018	022	026	009	001	005						93
75- 89	013	008	016	020	016			001					74
90-104	005	004	023	014	010	001	001	001					59
105-119	020	008	014	020	014	001							77
120-134	019	010	022	009	012	002	001	002					77
135-149	022	009	016	018	009	001	002						77
150-164	033	015	019	023	005	001	002						98
165-179	032	026	028	027	003	005	001	001					123
180-194	029	022	030	030	008	004							123
195-209	037	048	047	053	015	007	001						208
210-224	035	047	028	034	007	010	001						162
225-239	033	030	016	041	006	005	002						133
240-254	031	012	022	019	003	003	002						92
255-269	022	015	022	021	002	002	001						85
270-284	024	018	007	006		001	002						58
285-299	017	018	009	005		003	001						53
300-314	014	016	009	001		003							43
315-329	010	013	009	006	001	001	002						42
330-344	028	017	009	008	006	001							69
345-359	043	035	025	026	010	004							143
	651		668		253		70		0		0		3000
		617		618		98		25		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 30M START DATE 25/01/74

MEDIAN (MM/S)	FREQINCY NO.	PCT	50	100	150	200	250
5	0	0	.	.	.	.	.
15	252	8	*****	*****	*****	*****	*****
25	219	7	*****	*****	*****	*****	*****
35	242	8	*****	*****	*****	*****	*****
45	142	5	*****	*****	*****	*****	*****
55	177	6	*****	*****	*****	*****	*****
65	137	5	*****	*****	*****	*****	*****
75	99	3	*****	*****	*****	*****	*****
85	186	6	*****	*****	*****	*****	*****
95	121	4	*****	*****	*****	*****	*****
105	216	7	*****	*****	*****	*****	*****
115	145	5	*****	*****	*****	*****	*****
125	222	7	*****	*****	*****	*****	*****
135	136	5	*****	*****	*****	*****	*****
145	169	6	*****	*****	*****	*****	*****
155	91	3	*****	*****	*****	*****	*****
165	69	2	*****	*****	*****	*****	*****
175	80	3	*****	*****	*****	*****	*****
185	44	1	*****	*****	*****	*****	*****
195	60	2	*****	*****	*****	*****	*****
205	21	1	*****	*****	*****	*****	*****
215	34	1	*****	*****	*****	*****	*****
225	25	1	*****	*****	*****	*****	*****
235	25	1	*****	*****	*****	*****	*****
245	18	1	*****	*****	*****	*****	*****
255	14	0	***	*****	*****	*****	*****
265	22	1	*****	*****	*****	*****	*****
275	9	0	**	*****	*****	*****	*****
285	9	0	**	*****	*****	*****	*****
295	8	0	**	*****	*****	*****	*****
305	5	0	*	*****	*****	*****	*****
315	3	0	*	*****	*****	*****	*****
325	0	0		*****	*****	*****	*****
335	0	0		*****	*****	*****	*****
345	0	0		*****	*****	*****	*****
355	0	0		*****	*****	*****	*****
365	0	0		*****	*****	*****	*****
375	0	0		*****	*****	*****	*****
385	0	0		*****	*****	*****	*****
395	0	0		*****	*****	*****	*****

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 25/01/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	143	5	*****				
15	219	7	*****				
25	278	9	*****				
35	225	8	*****				
45	170	6	*****				
55	85	3	*****				
65	64	2	*****				
75	53	2	*****				
85	44	1	*****				
95	44	1	*****				
105	43	1	*****				
115	54	2	*****				
125	49	2	*****				
135	44	1	*****				
145	60	2	*****				
155	62	2	*****				
165	70	2	*****				
175	90	3	*****				
185	79	3	*****				
195	120	4	*****				
205	137	5	*****				
215	110	4	*****				
225	93	3	*****				
235	91	3	*****				
245	56	2	*****				
255	61	2	*****				
265	55	2	*****				
275	39	1	*****				
285	37	1	*****				
295	32	1	*****				
305	27	1	*****				
315	30	1	*****				
325	26	1	*****				
335	41	1	*****				
345	77	3	*****				
355	92	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30M START DATE 25/01/74

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	120 .	240 .	360 .	480 .	600 .
7.02	0	0					
7.06	0	0					
7.10	0	0					
7.14	0	0					
7.18	5	0					
7.22	64	2	*****				
7.26	192	6	*****				
7.30	265	9	*****				
7.34	129	4	*****				
7.38	152	5	*****				
7.42	183	6	*****				
7.46	220	7	*****				
7.50	356	12	*****				
7.54	107	4	*****				
7.58	83	3	*****				
7.62	87	3	*****				
7.66	79	3	*****				
7.70	114	4	*****				
7.74	14	0	*				
7.78	25	1	**				
7.82	19	1	**				
7.86	20	1	**				
7.90	51	2	****				
7.94	17	1	*				
7.98	30	1	***				
8.02	38	1	***				
8.06	64	2	*****				
8.10	179	6	*****				
8.14	140	5	*****				
8.18	230	8	*****				
8.22	120	4	*****				
8.26	17	1	*				
8.30	0	0					
8.34	0	0					
8.38	0	0					
8.42	0	0					
8.46	0	0					
8.50	0	0					
8.54	0	0					
8.58	0	0					

NO. OF SAMPLES OVER 8.60 = 0

NO. OF SAMPLES UNDER 7.00 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5

DEPTH 30M

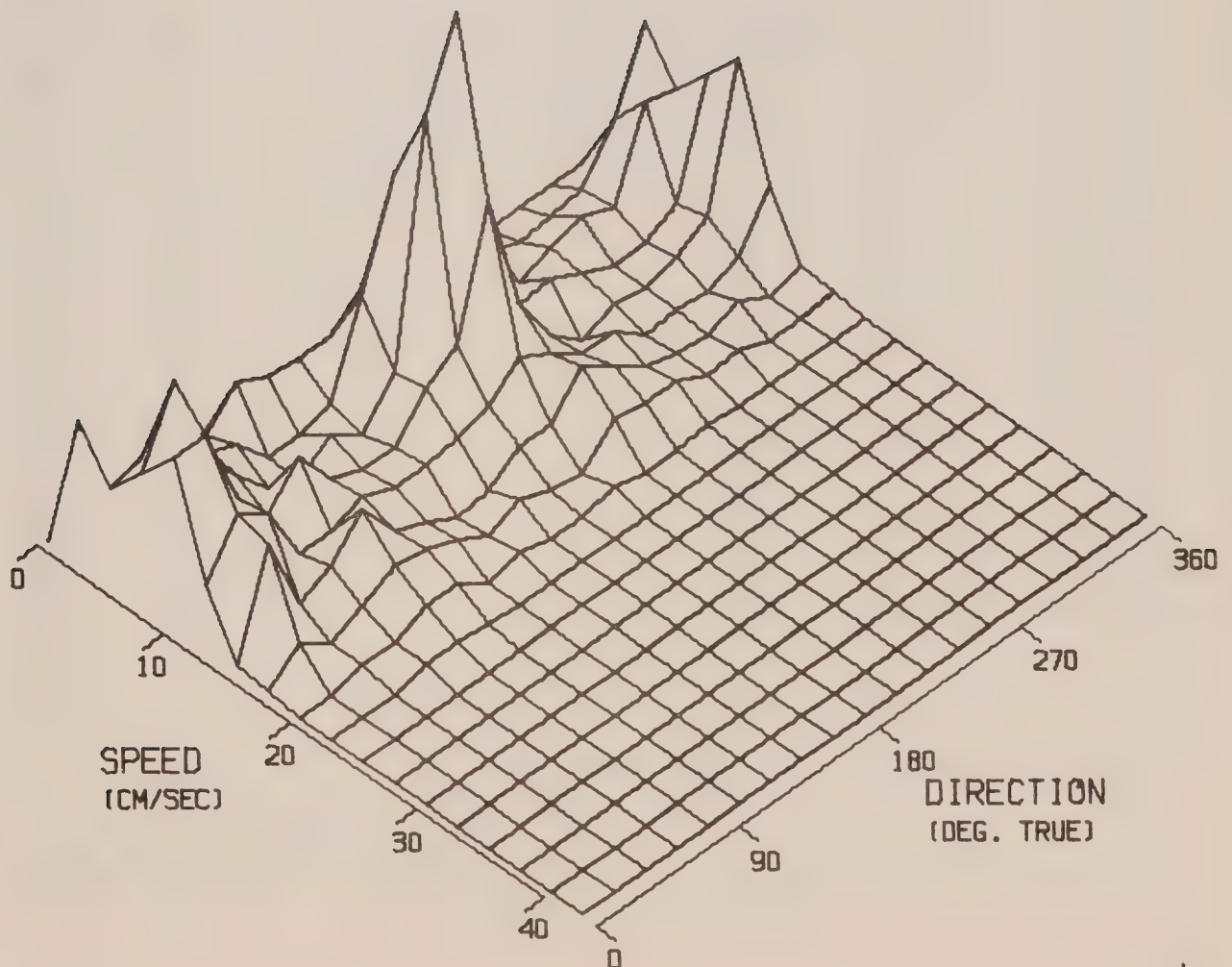
STARTING DATE: 15/ 2/74    ENDING DATE: 25/ 2/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5      DEPTH 30M

STARTING DATE: 15/ 2/74

NO. OF SAMPLES = 1525





STN. NO. HS-5

DEPTH 30M

STARTING DATE: 15/ 2/74

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	022	037	036	014	001								110
15- 29	007	046	050	026	007								136
30- 44	007	025	023	026		001							82
45- 59	006	023	015	007	004	001							56
60- 74	006	016	018	014	005	004							63
75- 89	006	010	016	016	009	005							62
90-104	012	005	014	006	003	004							44
105-119	010	001	009	009	008	002							39
120-134	008	008	012	007	003								38
135-149	007	008	006	003	001								25
150-164	011	018	009	005	004								47
165-179	009	055	021	005	002								92
180-194	016	075	051	005	001								148
195-209	022	079	067	011	001								180
210-224	009	038	031	014	004								96
225-239	013	021	011	017	005								67
240-254	006	008	006	006	006								32
255-269	003	007	005	005	004								24
270-284	002	007	004	004	002								19
285-299	002	007	001	002	002								14
300-314	001	007	004	001	002								15
315-329	004	004	004	003									15
330-344	010	018	004	002									34
345-359	018	033	035	001									87
	217	452		74		0		0		0			1525
	556		209		17		0		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 30 M START DATE 15/02/74

MEDIAN (MM/S)	FREQUENCY NO.	PCT	30	60	90	120	150
3	0	0	.	.	.	.	.
9	0	0					
15	30	2	*****				
21	71	5	*****				
27	39	3	*****				
33	77	5	*****				
39	44	3	*****				
45	91	6	*****				
51	54	4	*****				
57	119	8	*****				
63	62	4	*****				
69	123	8	*****				
75	63	4	*****				
81	68	4	*****				
87	93	6	*****				
93	58	4	*****				
99	88	6	*****				
105	38	2	*****				
111	71	5	*****				
117	36	2	*****				
123	56	4	*****				
129	21	1	*****				
135	32	2	*****				
141	14	1	*****				
147	49	3	*****				
153	16	1	*****				
159	21	1	*****				
165	39	3	*****				
171	6	0	**				
177	14	1	*****				
183	5	0	**				
189	8	1	***				
195	1	0					
201	7	0	**				
207	4	0	*				
213	5	0	**				
219	1	0					
225	2	0	*				
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1526  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 30M START DATE 15/02/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	30	60	90	120	150
5	78	5	*****				
15	87	6	*****				
25	89	6	*****				
35	57	4	*****				
45	43	3	*****				
55	32	2	*****				
65	40	3	*****				
75	48	3	*****				
85	39	3	*****				
95	33	2	*****				
105	31	2	*****				
115	23	2	*****				
125	24	2	*****				
135	18	1	*****				
145	19	1	*****				
155	26	2	*****				
165	50	3	*****				
175	73	5	*****				
185	94	6	*****				
195	119	8	*****				
205	105	7	*****				
215	76	5	*****				
225	43	3	*****				
235	42	3	*****				
245	20	1	*****				
255	17	1	*****				
265	18	1	*****				
275	11	1	****				
285	10	1	***				
295	12	1	****				
305	9	1	***				
315	9	1	***				
325	11	1	****				
335	19	1	*****				
345	38	2	*****				
355	63	4	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1526  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 30 M START DATE 15/02/74

MEDIAN (DEG.C)	FREQ'NCY NO. PCT	100	200	300	400	500
7.11	0 0	.	.	.	.	.
7.13	0 0					
7.15	0 0					
7.17	0 0					
7.19	0 0					
7.21	12 1	*				
7.23	0 0					
7.25	31 2	***				
7.27	0 0					
7.29	48 3	*****				
7.31	54 4	*****				
7.33	0 0					
7.35	303 20	*****				
7.37	0 0					
7.39	311 20	*****				
7.41	259 17	*****				
7.43	0 0					
7.45	125 8	*****				
7.47	0 0					
7.49	105 7	*****				
7.51	180 12	*****				
7.53	0 0					
7.55	82 5	*****				
7.57	0 0					
7.59	16 1	**				
7.61	0 0					
7.63	0 0					
7.65	0 0					
7.67	0 0					
7.69	0 0					
7.71	0 0					
7.73	0 0					
7.75	0 0					
7.77	0 0					
7.79	0 0					
7.81	0 0					
7.83	0 0					
7.85	0 0					
7.87	0 0					
7.89	0 0					

NO. OF SAMPLES OVER 7.90 = 0

NO. OF SAMPLES UNDER 7.10 = 0

TOTAL NO. OF OBSERVATIONS = 1526

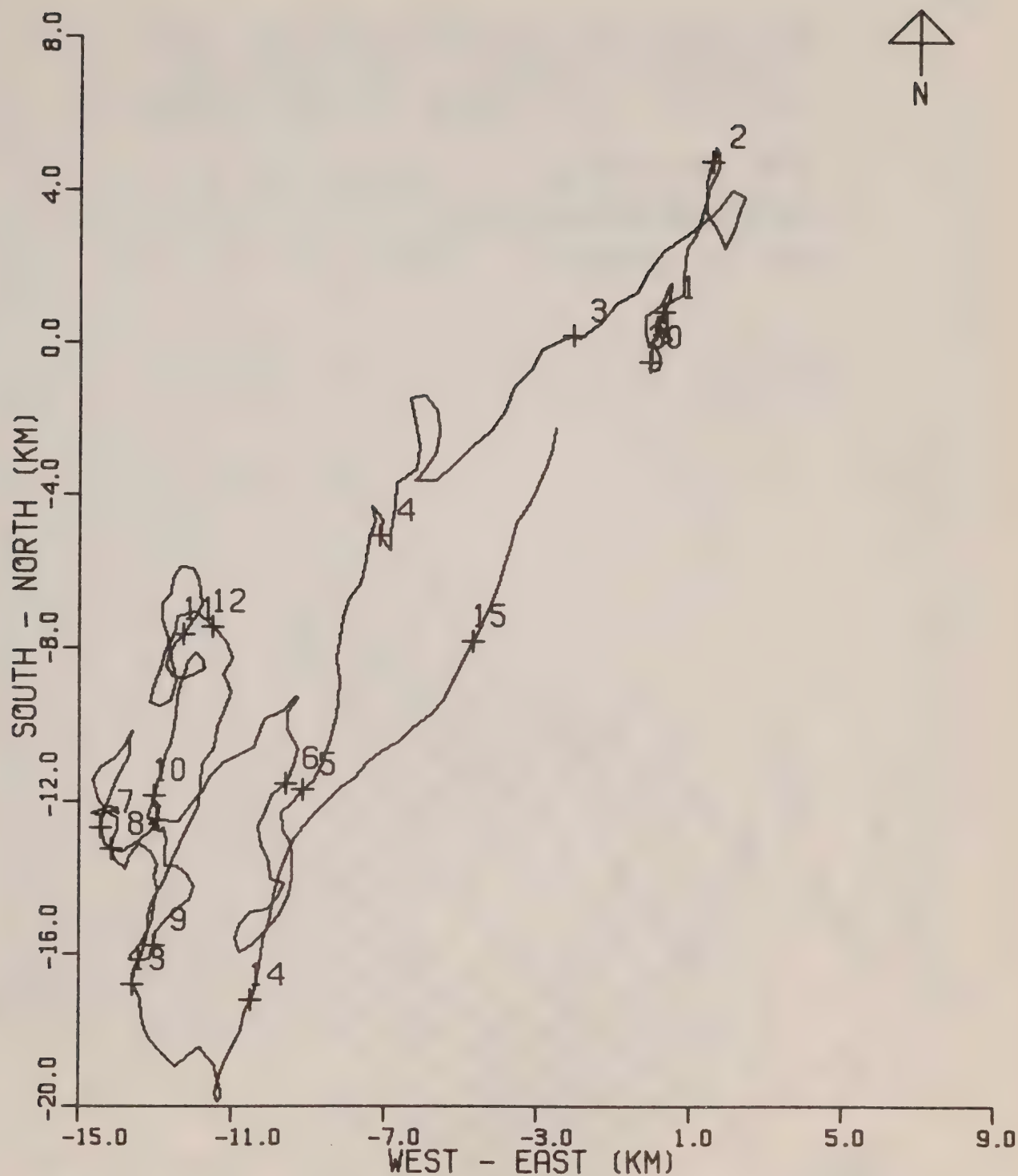
SAMPLE INTERVAL = 10 MINUTES





DATA FOR 150-METRE DEPTH





STN. NO. HS-5S

DEPTH 150 M.

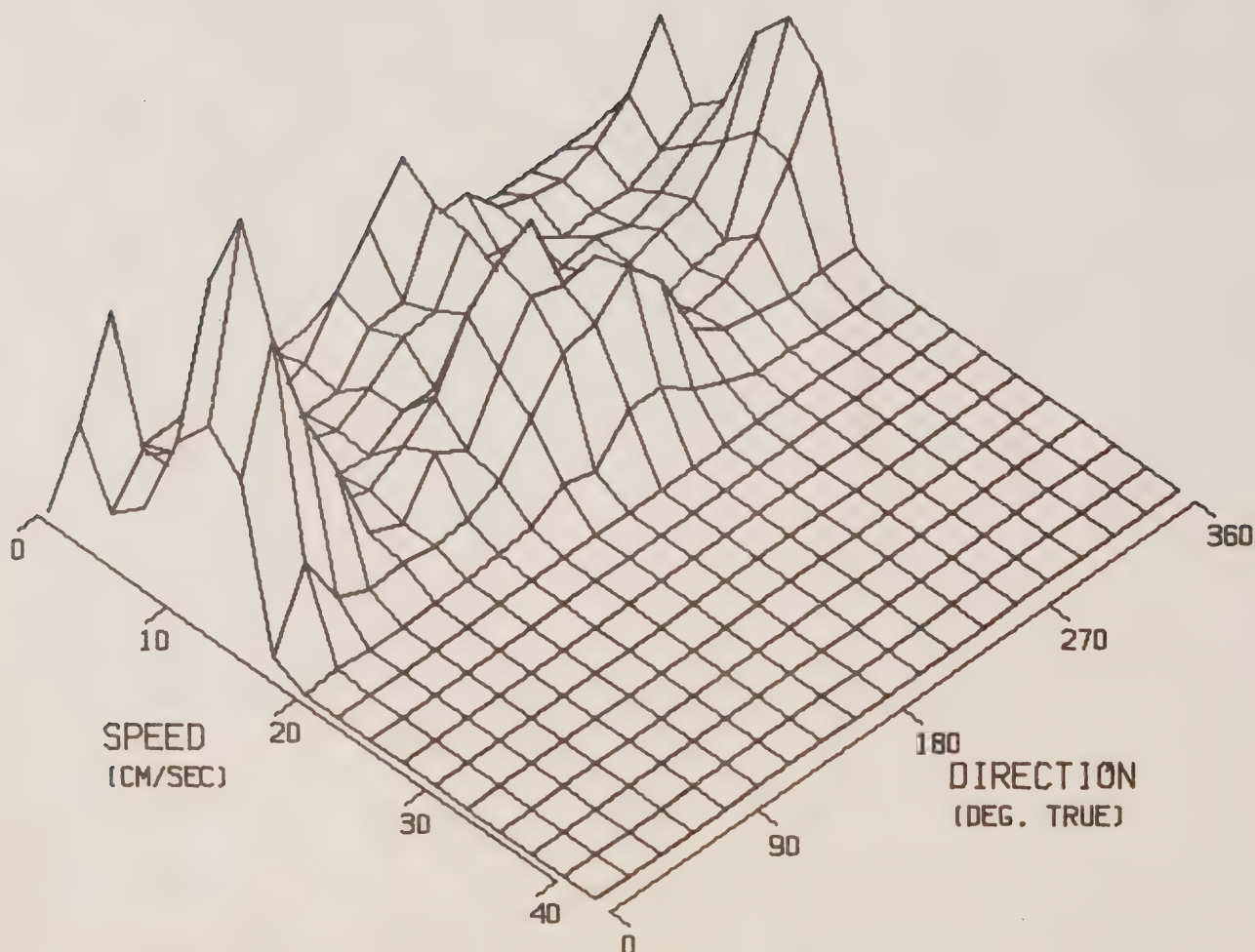
STARTING DATE: 29/11/72    ENDING DATE: 15/12/72

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 29/11/72

NO. OF SAMPLES = 2295



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 29/11/72  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	027	022	070	078	005								202
15- 29	049	033	113	108	022	001							326
30- 44	007	009	045	089	008								158
45- 59	004	006	020	035	002								67
60- 74	003	003	008	033	004								51
75- 89	002	002	004	008	003								19
90-104	001	005	005	004									15
105-119	001	005	005	015	004								30
120-134	001	002	010	016	004								33
135-149	001	008	012	022	011								54
150-164	011	019	015	028	015	001							89
165-179	019	015	029	060	026								149
180-194	026	035	036	046	036								179
195-209	031	035	050	053	033	002							204
210-224	015	023	029	050	048	002							167
225-239	016	006	017	028	031	003							101
240-254	011	010	017	029	025								92
255-269	006	010	008	007	012								43
270-284	004	001	008	006	008								27
285-299	005	005	008	007	003								28
300-314	003	003	012	010	003								31
315-329	006	004	010	015	003								38
330-344	011	007	022	035	004								79
345-359	015	016	034	047	001								113
	275		587		311		0		0		0		2295
		284		829		9		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M START DATE 29/11/72

MEDIAN (MM/S)	FREQUENCY NO.	PCT	40	80	120	160	200
3	0	0	.	.	.	.	.
9	0	0					
15	98	4	*****				
21	90	4	*****				
27	34	1	*****				
33	53	2	*****				
39	24	1	*****				
45	47	2	*****				
51	21	1	*****				
57	60	3	*****				
63	32	1	*****				
69	63	3	*****				
75	37	2	*****				
81	40	2	*****				
87	73	3	*****				
93	61	3	*****				
99	112	5	*****				
105	59	3	*****				
111	175	8	*****				
117	67	3	*****				
123	166	7	*****				
129	83	4	*****				
135	178	8	*****				
141	82	4	*****				
147	174	8	*****				
153	71	3	*****				
159	75	3	*****				
165	111	5	*****				
171	32	1	*****				
177	46	2	*****				
183	37	2	*****				
189	57	2	*****				
195	19	1	*****				
201	12	1	***				
207	4	0	*				
213	2	0	*				
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2295  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 29/11/72

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	143	6	*****				
15	156	7	*****				
25	243	11	*****				
35	104	5	*****				
45	72	3	*****				
55	40	2	*****				
65	34	1	*****				
75	23	1	*****				
85	9	0	**				
95	9	0	**				
105	18	1	****				
115	18	1	****				
125	25	1	*****				
135	26	1	*****				
145	38	2	*****				
155	58	3	*****				
165	89	4	*****				
175	95	4	*****				
185	113	5	*****				
195	140	6	*****				
205	138	6	*****				
215	119	5	*****				
225	69	3	*****				
235	68	3	*****				
245	70	3	*****				
255	43	2	*****				
265	22	1	****				
275	18	1	****				
285	18	1	****				
295	17	1	***				
305	21	1	****				
315	23	1	*****				
325	26	1	*****				
335	54	2	*****				
345	64	3	*****				
355	72	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2295  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 29/11/72

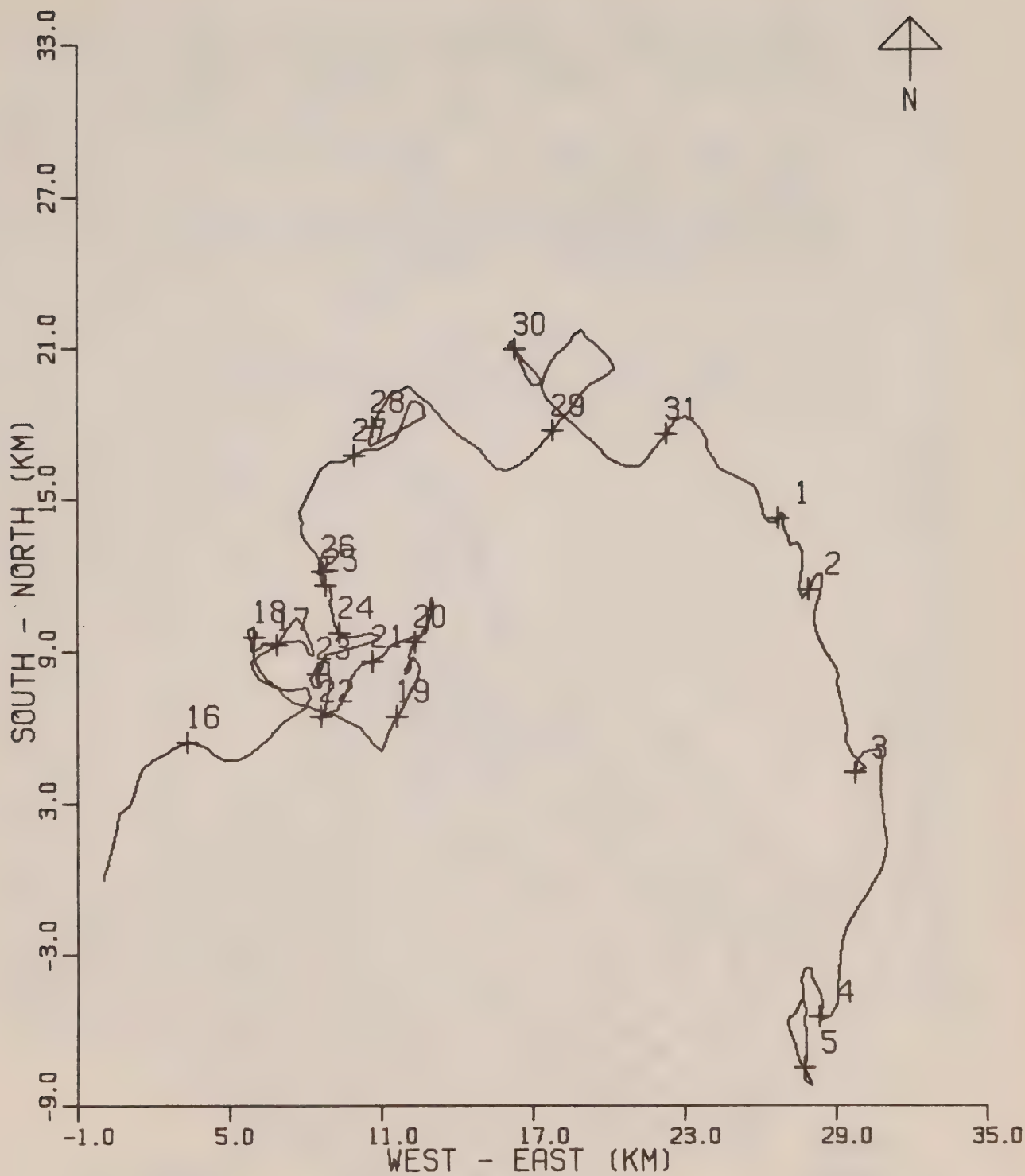
MEDIAN (DEG.C)	FREQ NO.	PCT	70	140	210	280	350
8.01	0	0	.	.	.	.	.
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	5	0	*				
8.15	175	8	*****				
8.17	0	0					
8.19	278	12	*****				
8.21	0	0					
8.23	216	9	*****				
8.25	328	14	*****				
8.27	0	0					
8.29	349	15	*****				
8.31	0	0					
8.33	315	14	*****				
8.35	220	10	*****				
8.37	0	0					
8.39	138	6	*****				
8.41	55	2	*****				
8.43	0	0					
8.45	22	1	***				
8.47	0	0					
8.49	39	2	*****				
8.51	93	4	*****				
8.53	0	0					
8.55	31	1	****				
8.57	0	0					
8.59	23	1	***				
8.61	8	0	*				
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					

NO. OF SAMPLES OVER 8.80 = 0

NO. OF SAMPLES UNDER 8.00 = 0

TOTAL NO. OF OBSERVATIONS = 2295

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-55

DEPTH 150 M.

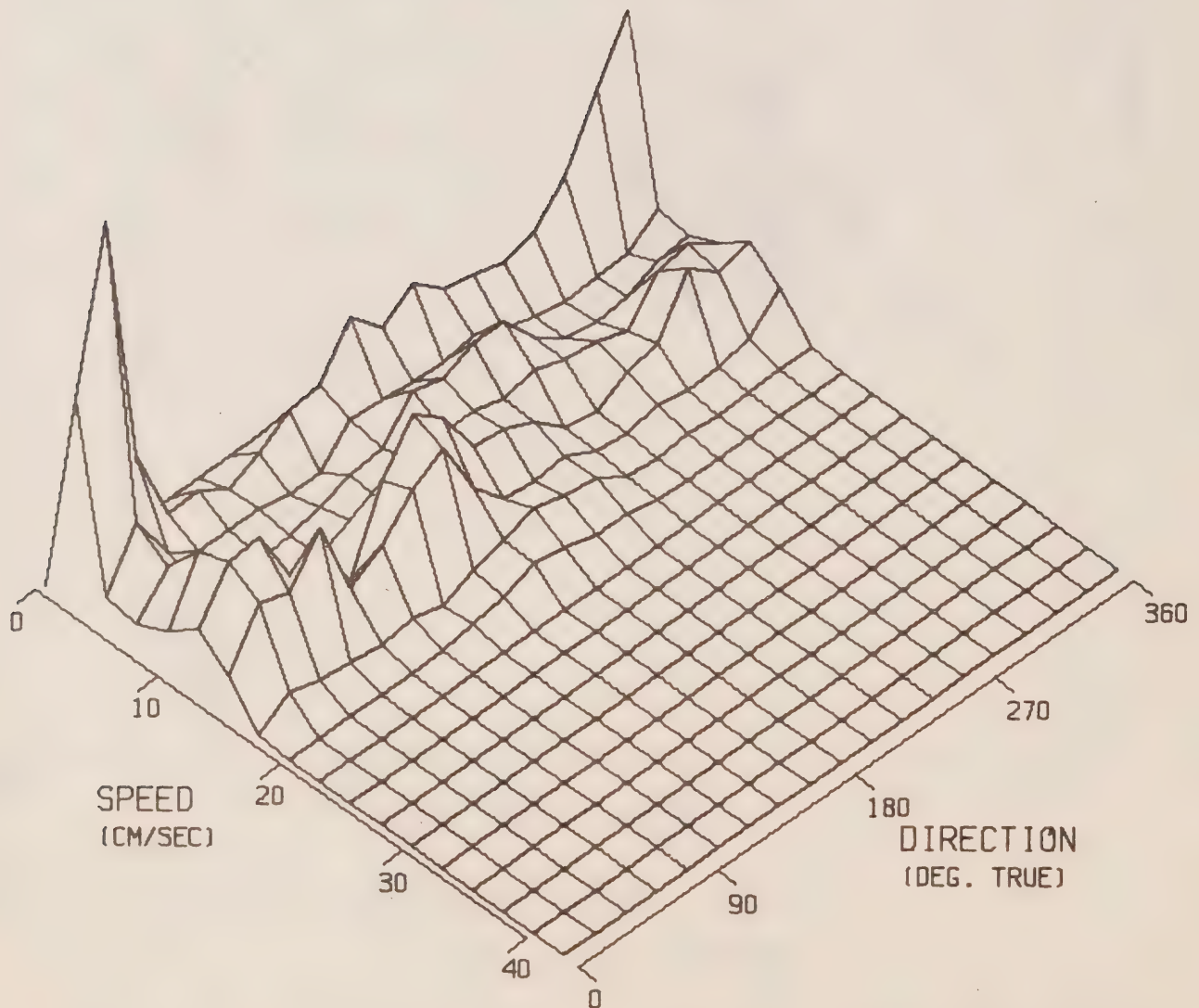
STARTING DATE: 15/12/72    ENDING DATE: 5/ 1/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 15/12/72

NO. OF SAMPLES = 3000





STN. NO. HS-5S DEPTH 150 M.

STARTING DATE: 15/12/72  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	106	028	038	049	003								224
15- 29	165	062	068	073	012								380
30- 44	057	023	042	071	006								199
45- 59	019	011	018	074	006								128
60- 74	012	009	010	051	006	001							89
75- 89	014	006	001	019	001								41
90-104	003	009	005	026	006								49
105-119	004	005	016	050	004								79
120-134	016	010	022	086	004	001							139
135-149	023	009	026	088	013	003							162
150-164	017	015	032	061	017	002							144
165-179	031	030	035	032	017	006							151
180-194	042	025	044	020	021	002							154
195-209	024	034	042	019	013	003							135
210-224	028	037	026	018	015	002							126
225-239	037	030	037	008	003	001							116
240-254	028	030	033	002	001								94
255-269	016	015	023	001									55
270-284	021	008	018	003	002								52
285-299	022	003	023	009									57
300-314	018	005	019	008									50
315-329	038	005	046	019	001								109
330-344	059	010	038	020									127
345-359	069	015	025	024	003								136
	869		687		154		0		0		0		2996
		434		831		21		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 4

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 15/12/72

MEDIAN (MM/S)	FREQUENCY		50	100	150	200	250
	NO.	PCT.	.	.	.	.	.
3	0	0					
9	0	0					
15	497	17	*****				
21	219	7	*****				
27	55	2	*****				
33	98	3	*****				
39	31	1	*****				
45	73	2	*****				
51	42	1	*****				
57	91	3	*****				
63	35	1	*****				
69	104	3	*****				
75	58	2	*****				
81	60	2	*****				
87	107	4	*****				
93	53	2	*****				
99	112	4	*****				
105	67	2	*****				
111	180	6	*****				
117	108	4	*****				
123	177	6	*****				
129	88	3	*****				
135	208	7	*****				
141	108	4	*****				
147	150	5	*****				
153	62	2	*****				
159	38	1	*****				
165	51	2	*****				
171	15	1	***				
177	32	1	*****				
183	15	1	***				
189	20	1	****				
195	7	0	*				
201	29	1	*****				
207	5	0	*				
213	1	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 4  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 150M START DATE 15/12/72

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	155	5	*****				
15	186	6	*****				
25	282	9	*****				
35	136	5	*****				
45	99	3	*****				
55	85	3	*****				
65	63	2	*****				
75	35	1	*****				
85	25	1	*****				
95	32	1	*****				
105	40	1	*****				
115	54	2	*****				
125	93	3	*****				
135	125	4	*****				
145	84	3	*****				
155	97	3	*****				
165	111	4	*****				
175	92	3	*****				
185	118	4	*****				
195	86	3	*****				
205	85	3	*****				
215	96	3	*****				
225	83	3	*****				
235	63	2	*****				
245	66	2	*****				
255	37	1	*****				
265	45	2	*****				
275	31	1	*****				
285	43	1	*****				
295	33	1	*****				
305	29	1	*****				
315	59	2	*****				
325	78	3	*****				
335	79	3	*****				
345	98	3	*****				
355	77	3	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 150M START DATE 15/12/72

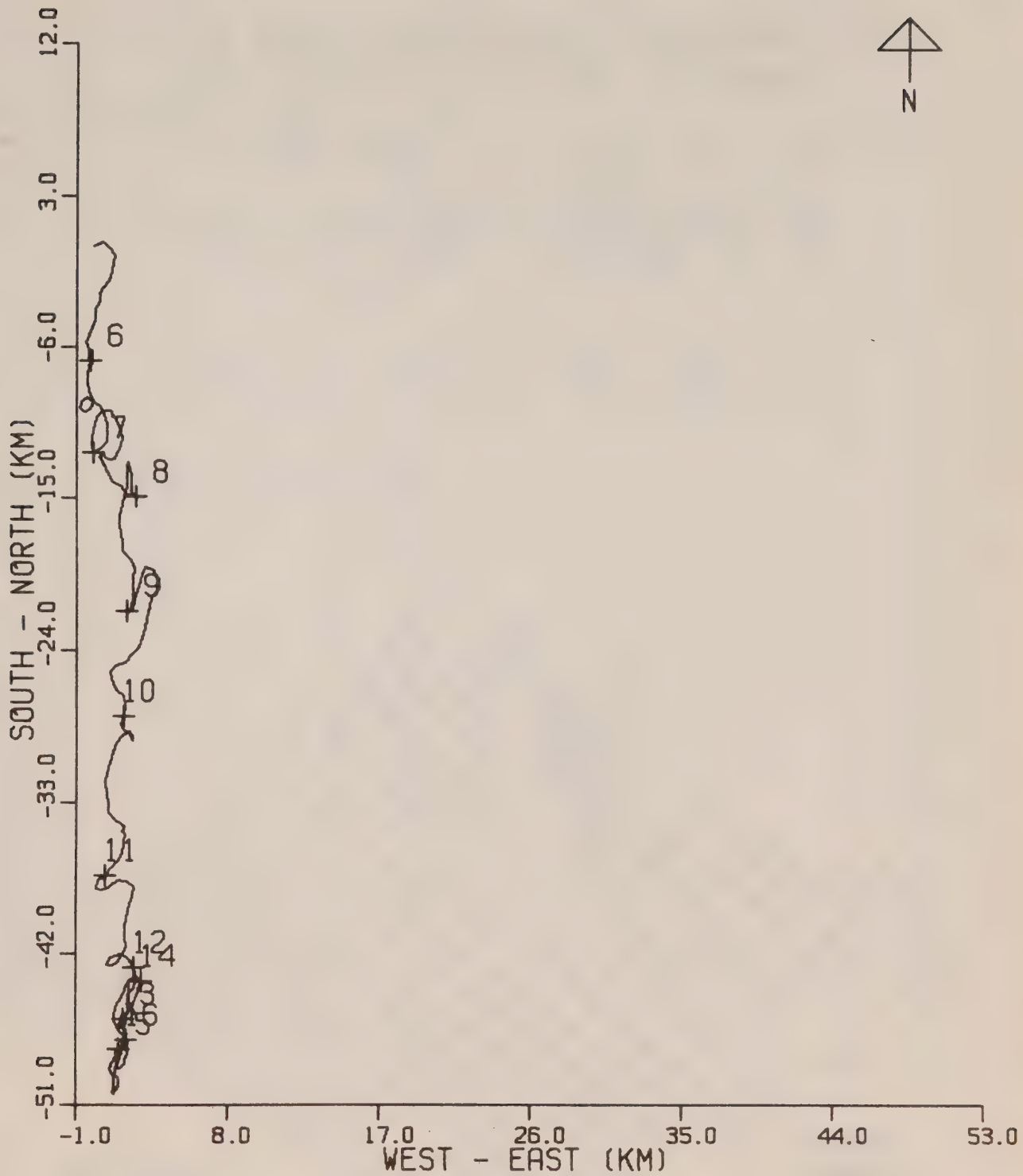
MEDIAN (DEG.C)	FREQ NO.	PCT	190	380	570	760	950
8.01	0	0	.	.	.	.	.
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	0	0					
8.19	0	0					
8.21	0	0					
8.23	0	0					
8.25	35	1					
8.27	0	0					
8.29	60	2					
8.31	0	0					
8.33	92	3					
8.35	167	6					
8.37	0	0					
8.39	200	7					
8.41	242	8					
8.43	0	0					
8.45	460	15					
8.47	0	0					
8.49	815	27					
8.51	425	14					
8.53	0	0					
8.55	436	15					
8.57	0	0					
8.59	68	2					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					

NO. OF SAMPLES OVER 8.80 = 0

NO. OF SAMPLES UNDER 8.00 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



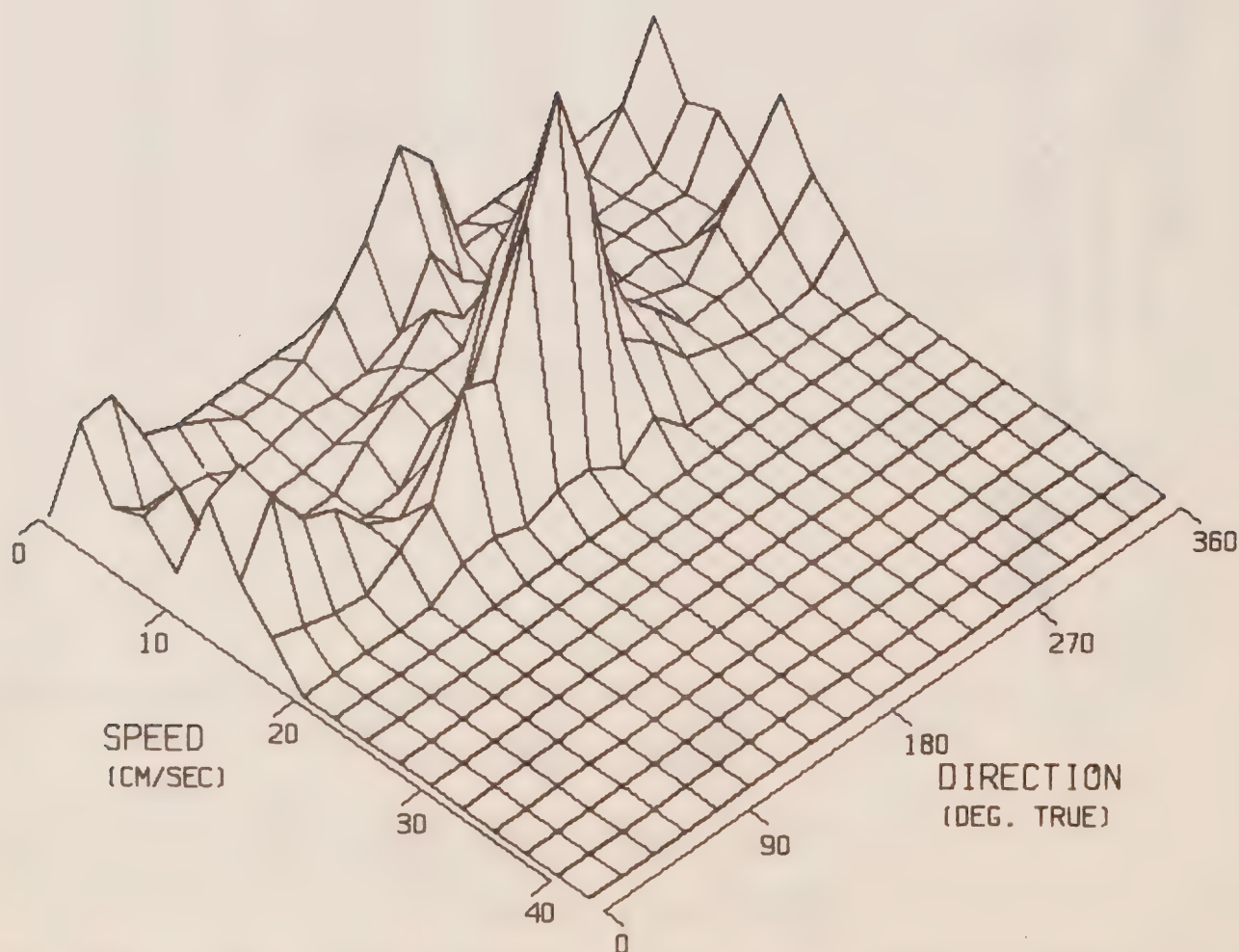


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 5/ 1/73

NO. OF SAMPLES = 1610



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 5/ 1/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000 TO 039	040 TO 079	080 TO 119	120 TO 159	160 TO 199	200 TO 239	240 TO 279	280 TO 319	320 TO 359	360 TO 399	400 TO 439	440 TO 479	
0- 14	023	015	014	032	007								91
15- 29	022	015	024	050	004								115
30- 44	013	005	007	019	003								47
45- 59	005	005		022	001								33
60- 74	010	002		014	006								32
75- 89	005			004	004								13
90-104				003	015								18
105-119	004	002	003	010	022								41
120-134		003	007	010	032								52
135-149	004	001	016	026	026								73
150-164	011	004	017	027	058								117
165-179	015	006	020	060	049	001							151
180-194	017	018	025	067	078								205
195-209	031	018	027	056	049								181
210-224	030	018	017	062	025								152
225-239	006	007	013	029	017								72
240-254	005	002	006	017	008								36
255-269	003	003	006	013	002								27
270-284	002	001	007	004	002								16
285-299	002	001	004	005	002								14
300-314	001	003	005	003									12
315-329	001	002	003	007									13
330-344	005	003	009	014	001								32
345-359	018	009	008	025	005								65
	233		238		416		0		0		0		1610
		143		579		1		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 05/01/73

MEDIAN (MM/S)	FREQNCY NO.	PCT	40	80	120	160	200
3	0	0	.	.	.	.	.
9	0	0					
15	93	6	*****				
21	75	5	*****				
27	27	2	*****				
33	38	2	*****				
39	11	1	***				
45	16	1	****				
51	17	1	****				
57	36	2	*****				
63	10	1	***				
69	31	2	*****				
75	22	1	*****				
81	24	1	*****				
87	36	2	*****				
93	15	1	****				
99	33	2	*****				
105	32	2	*****				
111	58	4	*****				
117	40	2	*****				
123	83	5	*****				
129	61	4	*****				
135	94	6	*****				
141	56	3	*****				
147	134	8	*****				
153	72	4	*****				
159	79	5	*****				
165	142	9	*****				
171	75	5	*****				
177	106	7	*****				
183	39	2	*****				
189	38	2	*****				
195	11	1	***				
201	6	0	**				
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1610  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 05/01/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	30	60	90	120	150
5	77	5	*****	*****	*****	*****	*****
15	70	4	*****	*****	*****	*****	*****
25	65	4	*****	*****	*****	*****	*****
35	30	2	*****	*****	*****	*****	*****
45	23	1	*****	*****	*****	*****	*****
55	26	2	*****	*****	*****	*****	*****
65	16	1	*****	*****	*****	*****	*****
75	17	1	*****	*****	*****	*****	*****
85	9	1	***	*****	*****	*****	*****
95	13	1	***	*****	*****	*****	*****
105	14	1	*****	*****	*****	*****	*****
115	31	2	*****	*****	*****	*****	*****
125	39	2	*****	*****	*****	*****	*****
135	38	2	*****	*****	*****	*****	*****
145	53	3	*****	*****	*****	*****	*****
155	75	5	*****	*****	*****	*****	*****
165	85	5	*****	*****	*****	*****	*****
175	112	7	*****	*****	*****	*****	*****
185	146	9	*****	*****	*****	*****	*****
195	126	8	*****	*****	*****	*****	*****
205	121	8	*****	*****	*****	*****	*****
215	109	7	*****	*****	*****	*****	*****
225	59	4	*****	*****	*****	*****	*****
235	42	3	*****	*****	*****	*****	*****
245	24	1	*****	*****	*****	*****	*****
255	27	2	*****	*****	*****	*****	*****
265	11	1	****	*****	*****	*****	*****
275	13	1	****	*****	*****	*****	*****
285	6	0	**	*****	*****	*****	*****
295	12	1	****	*****	*****	*****	*****
305	6	0	**	*****	*****	*****	*****
315	8	0	***	*****	*****	*****	*****
325	12	1	****	*****	*****	*****	*****
335	18	1	*****	*****	*****	*****	*****
345	32	2	*****	*****	*****	*****	*****
355	45	3	*****	*****	*****	*****	*****
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1610  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 05/01/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	120 .	240 .	360 .	480 .	600 .
8.01	0	0					
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	0	0					
8.19	0	0					
8.21	0	0					
8.23	0	0					
8.25	12	1	*				
8.27	0	0					
8.29	141	9	*****				
8.31	0	0					
8.33	323	20	*****				
8.35	396	25	*****				
8.37	0	0					
8.39	634	39	*****				
8.41	104	6	*****				
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					

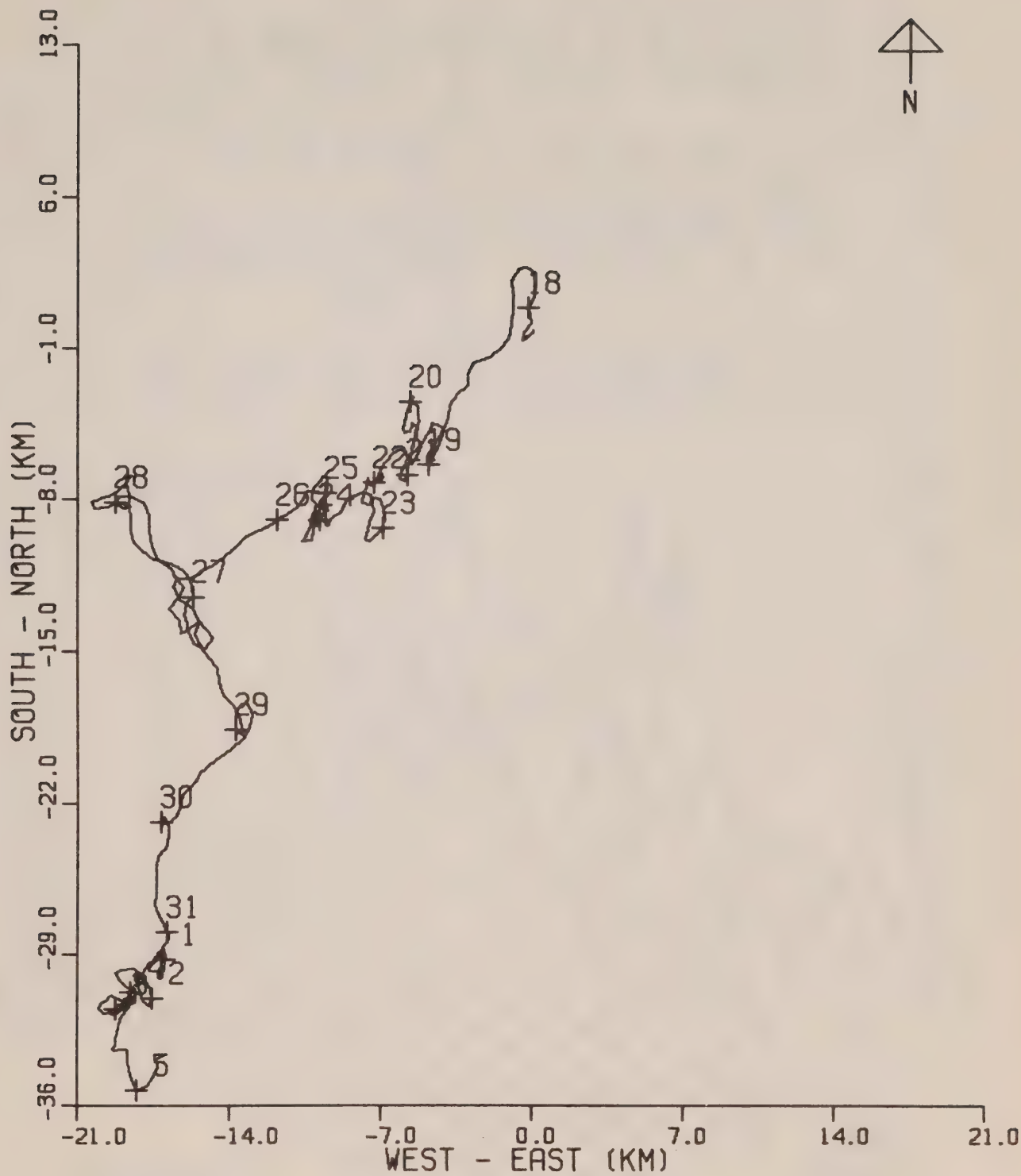
NO. OF SAMPLES OVER 8.80 = 0

NO. OF SAMPLES UNDER 8.00 = 0

TOTAL NO. OF OBSERVATIONS = 1610

SAMPLE INTERVAL = 10 MINUTES





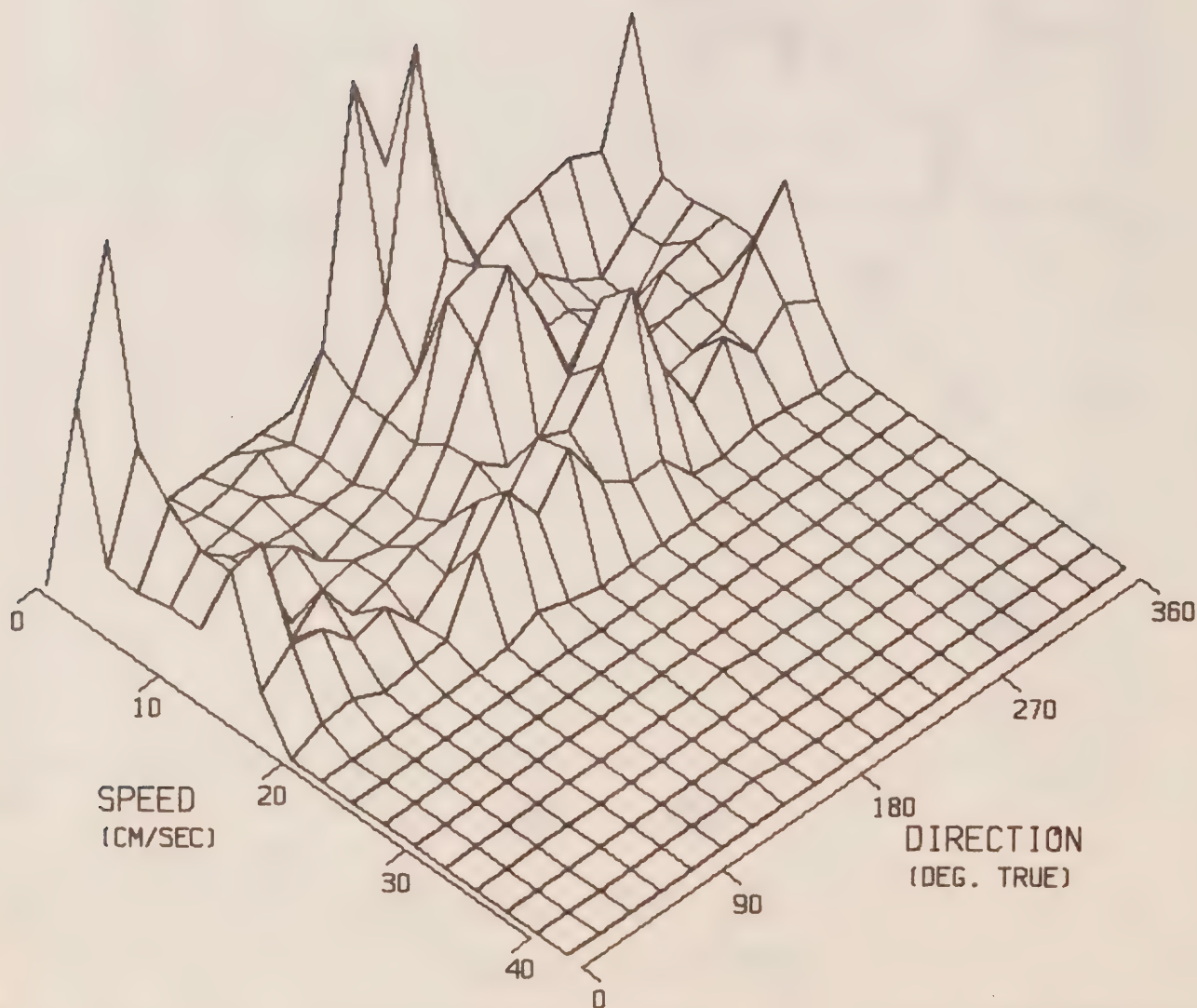
STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 17/ 1/73    ENDING DATE: 5/ 2/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.  
STARTING DATE: 17/ 1/73  
NO. OF SAMPLES = 2694



STN. NO. HS-58 DEPTH 150 M.

STARTING DATE: 17/ 1/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	056	021	037	048	007								169
15- 29	075	060	025	045	023	001							229
30- 44	022	027	014	010	015								88
45- 59	002	008	008	016	011	001							46
60- 74	004	007	008	009	011								39
75- 89	001	003	010	006	007								27
90-104	002	007	004	006	005								24
105-119	006	005	007	010	005	003							36
120-134	002	003	006	013	020	017							61
135-149	003	005	008	011	029	017				001			74
150-164	017	019	018	027	021	008							110
165-179	041	031	032	025	037	005							171
180-194	070	069	068	039	036	005	001						288
195-209	046	084	065	043	032	001							271
210-224	068	050	044	038	031	001							232
225-239	037	023	026	046	049								181
240-254	020	027	019	037	040								143
255-269	014	008	008	012	013	001							56
270-284	015	016	011	015	009								66
285-299	021	012	007	015	012								67
300-314	019	003	011	016	017								66
315-329	023	001	014	013	007								58
330-344	020	008	017	026	014								85
345-359	023	019	019	032	011								104
	607		486		462		0		0		0		2691
		516		558		60		1		1		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 3

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 17/01/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	40	80	120	160	200
3	0	0	.	.	.	.	.
9	0	0					
15	131	5	*****				
21	187	7	*****				
27	105	4	*****				
33	184	7	*****				
39	89	3	*****				
45	108	4	*****				
51	56	2	*****				
57	97	4	*****				
63	46	2	*****				
69	83	3	*****				
75	37	1	*****				
81	38	1	*****				
87	103	4	*****				
93	50	2	*****				
99	90	3	*****				
105	44	2	*****				
111	114	4	*****				
117	47	2	*****				
123	134	5	*****				
129	46	2	*****				
135	83	3	*****				
141	46	2	*****				
147	97	4	*****				
153	68	3	*****				
159	84	3	*****				
165	126	5	*****				
171	42	2	*****				
177	98	4	*****				
183	40	1	*****				
189	80	3	*****				
195	35	1	*****				
201	70	3	*****				
207	12	0	***				
213	17	1	****				
219	1	0					
225	1	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 5  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2694  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 17/01/73

MEDIAN (DEG.T)	FREQUENCY NO. PCT	50	100	150	200	250
5	113 4	*****				
15	126 5	*****				
25	170 6	*****				
35	63 2	*****				
45	37 1	*****				
55	26 1	*****				
65	23 1	*****				
75	23 1	*****				
85	21 1	*****				
95	15 1	***				
105	19 1	***				
115	29 1	*****				
125	37 1	*****				
135	52 2	*****				
145	48 2	*****				
155	76 3	*****				
165	77 3	*****				
175	138 5	*****				
185	179 7	*****				
195	216 8	*****				
205	162 6	*****				
215	162 6	*****				
225	132 5	*****				
235	125 5	*****				
245	93 3	*****				
255	53 2	*****				
265	39 1	*****				
275	43 2	*****				
285	43 2	*****				
295	46 2	*****				
305	41 2	*****				
315	43 2	*****				
325	39 1	*****				
335	50 2	*****				
345	70 3	*****				
355	65 2	*****				
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2694  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 17/01/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	.	120 .	240 .	360 .	480 .	600 .
7.71	6	0	*					
7.73	13	0	*					
7.75	14	1	*					
7.77	0	0						
7.79	10	0	*					
7.81	9	0	*					
7.83	12	0	*					
7.85	14	1	*					
7.87	10	0	*					
7.89	9	0	*					
7.91	13	0	*					
7.93	0	0						
7.95	21	1	**					
7.97	21	1	**					
7.99	14	1	*					
8.01	10	0	*					
8.03	9	0	*					
8.05	7	0	*					
8.07	9	0	*					
8.09	0	0						
8.11	25	1	**					
8.13	36	1	***					
8.15	83	3	*****					
8.17	78	3	*****					
8.19	72	3	*****					
8.21	99	4	*****					
8.23	97	4	*****					
8.25	0	0						
8.27	149	6	*****					
8.29	110	4	*****					
8.31	80	3	*****					
8.33	290	11	*****					
8.35	817	30	*****					
8.37	332	12	*****					
8.39	119	4	*****					
8.41	0	0						
8.43	96	4	*****					
8.45	3	0						
8.47	0	0						
8.49	0	0						

NO. OF SAMPLES OVER 8.50 = 1

NO. OF SAMPLES UNDER 7.70 = 6

TOTAL NO. OF OBSERVATIONS = 2694

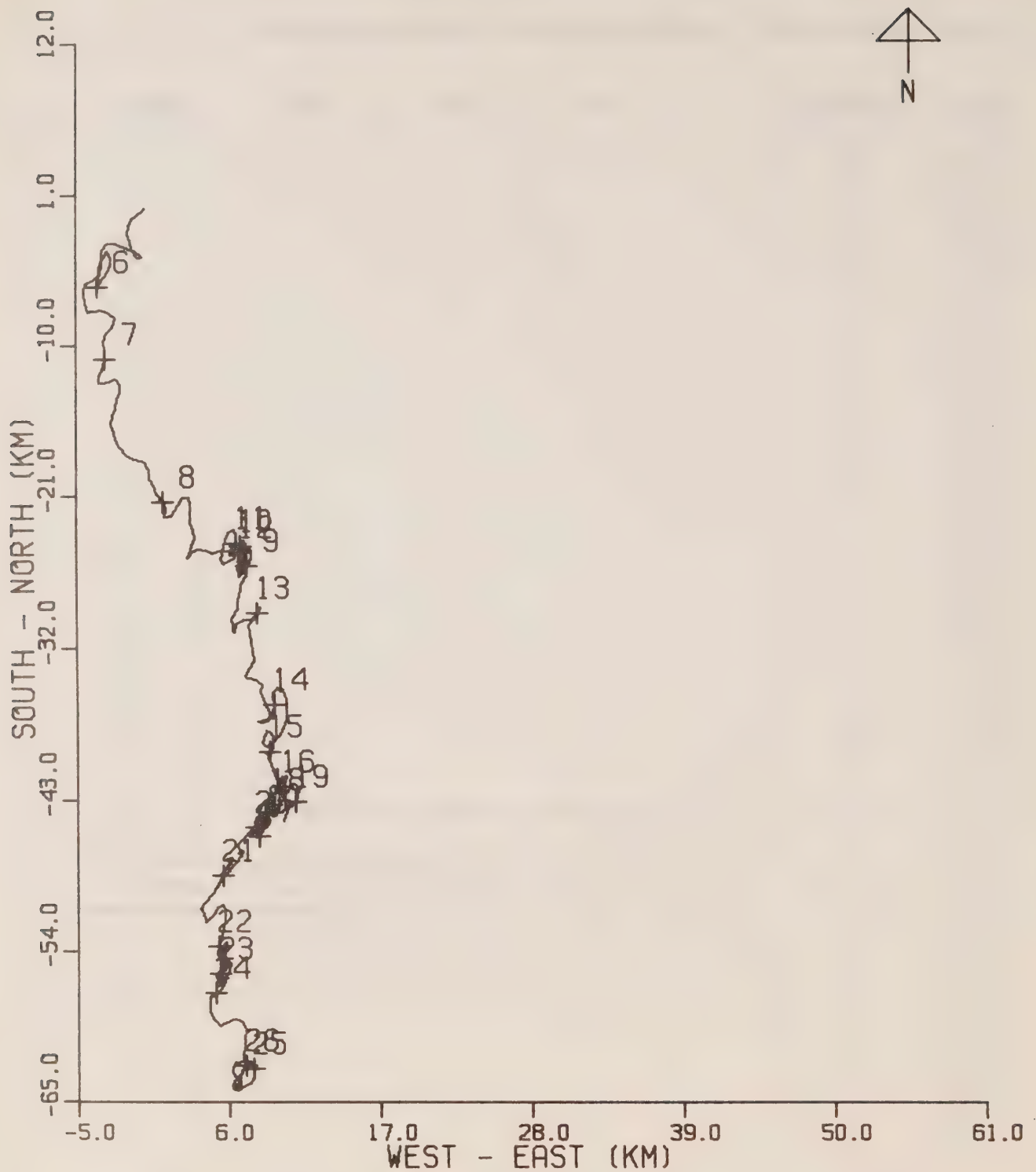
SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-53 DEPTH 150M START DATE 17/01/73

MEDIAN (PPT)	FREQUENCY NO. PCT .	140 .	280 .	420 .	560 .	700 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	0 0					
30.01	0 0					
30.03	0 0					
30.05	10 0					
30.07	29 1					
30.09	67 2					
30.11	67 2					
30.13	438 16					
30.15	164 6					
30.17	619 23					
30.19	572 21					
30.21	642 24					
30.23	73 3					
30.25	8 0					
30.27	2 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	1 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 0  
 NO. OF SAMPLES UNDER 29.60 = 2  
 TOTAL NO. OF OBSERVATIONS = 2694  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

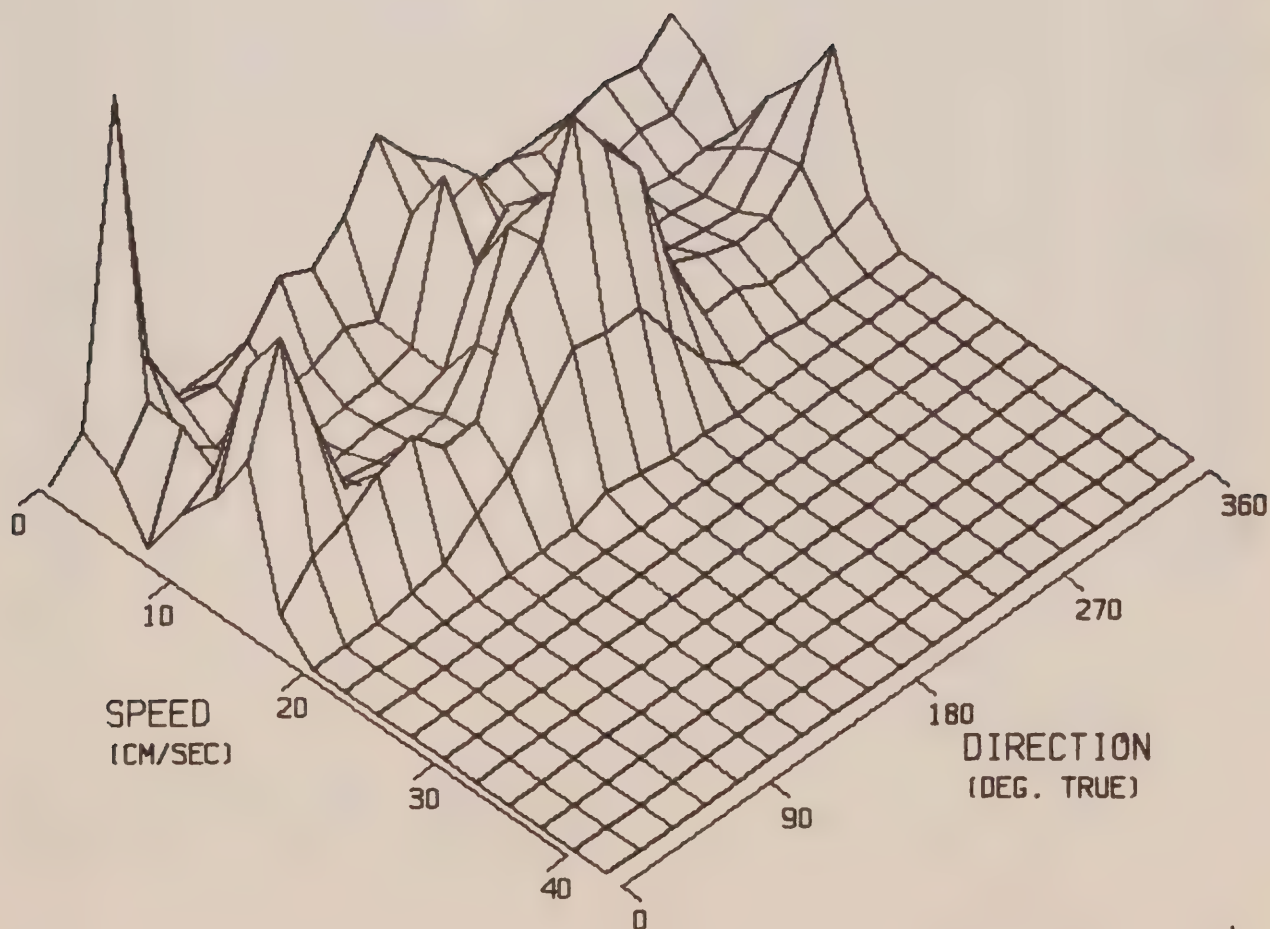
STARTING DATE: 5/ 2/73    ENDING DATE: 26/ 2/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 5/ 2/73

NO. OF SAMPLES = 3000



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 5/ 2/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	030	019	019	063	011								142
15- 29	105	051	043	116	015								330
30- 44	035	015	016	064	018								148
45- 59	011	009	010	024	018								72
60- 74	009	010	014	020	030								83
75- 89	006	005	003	011	033								58
90-104	009	003	003	014	032								61
105-119	022	005	005	015	027	001							75
120-134	015	012	006	010	039	001							83
135-149	022	012	004	010	063	005							116
150-164	019	008	010	028	068	016							149
165-179	042	042	028	037	091	011							251
180-194	032	038	062	086	088	013							319
195-209	031	030	050	076	084	010							281
210-224	022	030	029	073	079	004							237
225-239	014	020	013	067	045	002							161
240-254	013	015	011	025	018	001							83
255-269	010	009	007	021	008								55
270-284	007	005	008	016	009								45
285-299	007	005	006	013	005								36
300-314	014	007	002	011	005								39
315-329	011	006	005	010	003								35
330-344	013	008	011	023	003								58
345-359	008	009	018	038	006								79
	507		383		798		0		0		0		2996
		373		871		64		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 4



## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M START DATE 05/02/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
3	0	0	.	.	.	.	.
9	0	0					
15	157	5	*****				
21	151	5	*****				
27	71	2	*****				
33	128	4	*****				
39	63	2	*****				
45	83	3	*****				
51	40	1	*****				
57	66	2	*****				
63	28	1	*****				
69	61	2	*****				
75	32	1	*****				
81	31	1	*****				
87	59	2	*****				
93	32	1	*****				
99	68	2	*****				
105	44	1	*****				
111	90	3	*****				
117	59	2	*****				
123	135	5	*****				
129	67	2	*****				
135	161	5	*****				
141	98	3	*****				
147	221	7	*****				
153	94	3	*****				
159	95	3	*****				
165	181	6	*****				
171	89	3	*****				
177	172	6	*****				
183	89	3	*****				
189	171	6	*****				
195	57	2	*****				
201	74	2	*****				
207	14	0	***				
213	11	0	**				
219	3	0	*				
225	1	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 4  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 05/02/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	104	3	*****	*****	*****	*****	*****
15	109	4	*****	*****	*****	*****	*****
25	279	9	*****	*****	*****	*****	*****
35	98	3	*****	*****	*****	*****	*****
45	65	2	*****	*****	*****	*****	*****
55	43	1	*****	*****	*****	*****	*****
65	58	2	*****	*****	*****	*****	*****
75	54	2	*****	*****	*****	*****	*****
85	31	1	*****	*****	*****	*****	*****
95	37	1	*****	*****	*****	*****	*****
105	46	2	*****	*****	*****	*****	*****
115	52	2	*****	*****	*****	*****	*****
125	55	2	*****	*****	*****	*****	*****
135	62	2	*****	*****	*****	*****	*****
145	82	3	*****	*****	*****	*****	*****
155	102	3	*****	*****	*****	*****	*****
165	116	4	*****	*****	*****	*****	*****
175	198	7	*****	*****	*****	*****	*****
185	224	7	*****	*****	*****	*****	*****
195	192	6	*****	*****	*****	*****	*****
205	185	6	*****	*****	*****	*****	*****
215	175	6	*****	*****	*****	*****	*****
225	118	4	*****	*****	*****	*****	*****
235	92	3	*****	*****	*****	*****	*****
245	55	2	*****	*****	*****	*****	*****
255	44	1	*****	*****	*****	*****	*****
265	32	1	*****	*****	*****	*****	*****
275	32	1	*****	*****	*****	*****	*****
285	26	1	*****	*****	*****	*****	*****
295	28	1	*****	*****	*****	*****	*****
305	20	1	*****	*****	*****	*****	*****
315	27	1	*****	*****	*****	*****	*****
325	26	1	*****	*****	*****	*****	*****
335	36	1	*****	*****	*****	*****	*****
345	44	1	*****	*****	*****	*****	*****
355	53	2	*****	*****	*****	*****	*****
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 05/02/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	180	360	540	720	900
7.91	0	0	.	.	.	.	.
7.93	0	0					
7.95	0	0					
7.97	0	0					
7.99	0	0					
8.01	1	0					
8.03	2	0					
8.05	7	0					
8.07	6	0					
8.09	0	0					
8.11	30	1	**				
8.13	99	3	*****				
8.15	267	9	*****				
8.17	429	14	*****				
8.19	478	16	*****				
8.21	564	19	*****				
8.23	648	22	*****				
8.25	0	0					
8.27	339	11	*****				
8.29	91	3	*****				
8.31	24	1	*				
8.33	14	0	*				
8.35	1	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					

NO. OF SAMPLES OVER 8.70 = 0

NO. OF SAMPLES UNDER 7.90 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 05/02/73

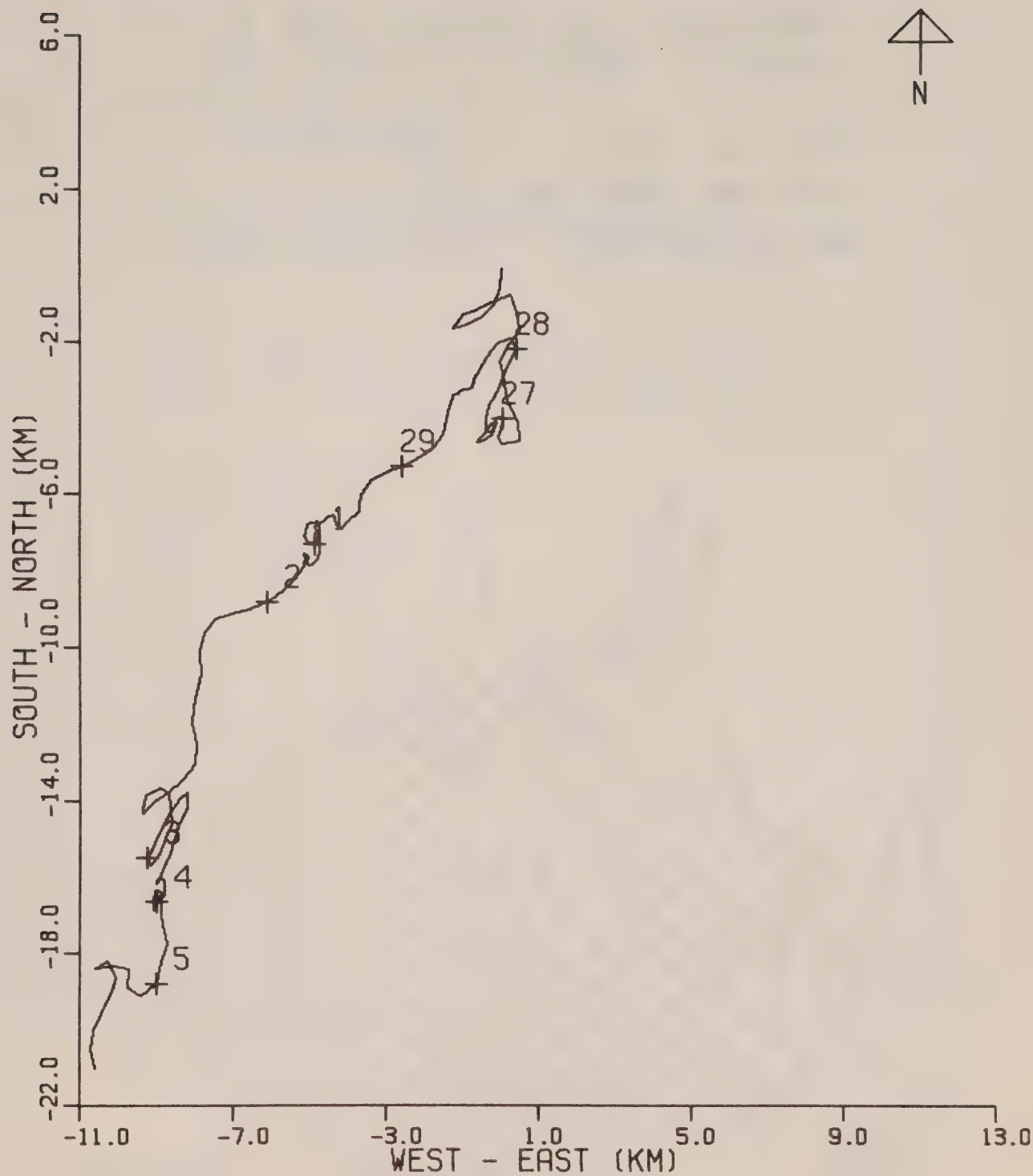
MEDIAN (PPT)	FREQUENCY		190	380	570	760	950
	NO.	PCT	.	.	.	.	.
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	0	0					
29.97	0	0					
29.99	0	0					
30.01	0	0					
30.03	0	0					
30.05	0	0					
30.07	0	0					
30.09	13	0	*				
30.11	222	7	*****				
30.13	756	25	*****				
30.15	431	14	*****				
30.17	943	31	*****				
30.19	586	20	*****				
30.21	41	1	**				
30.23	8	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES



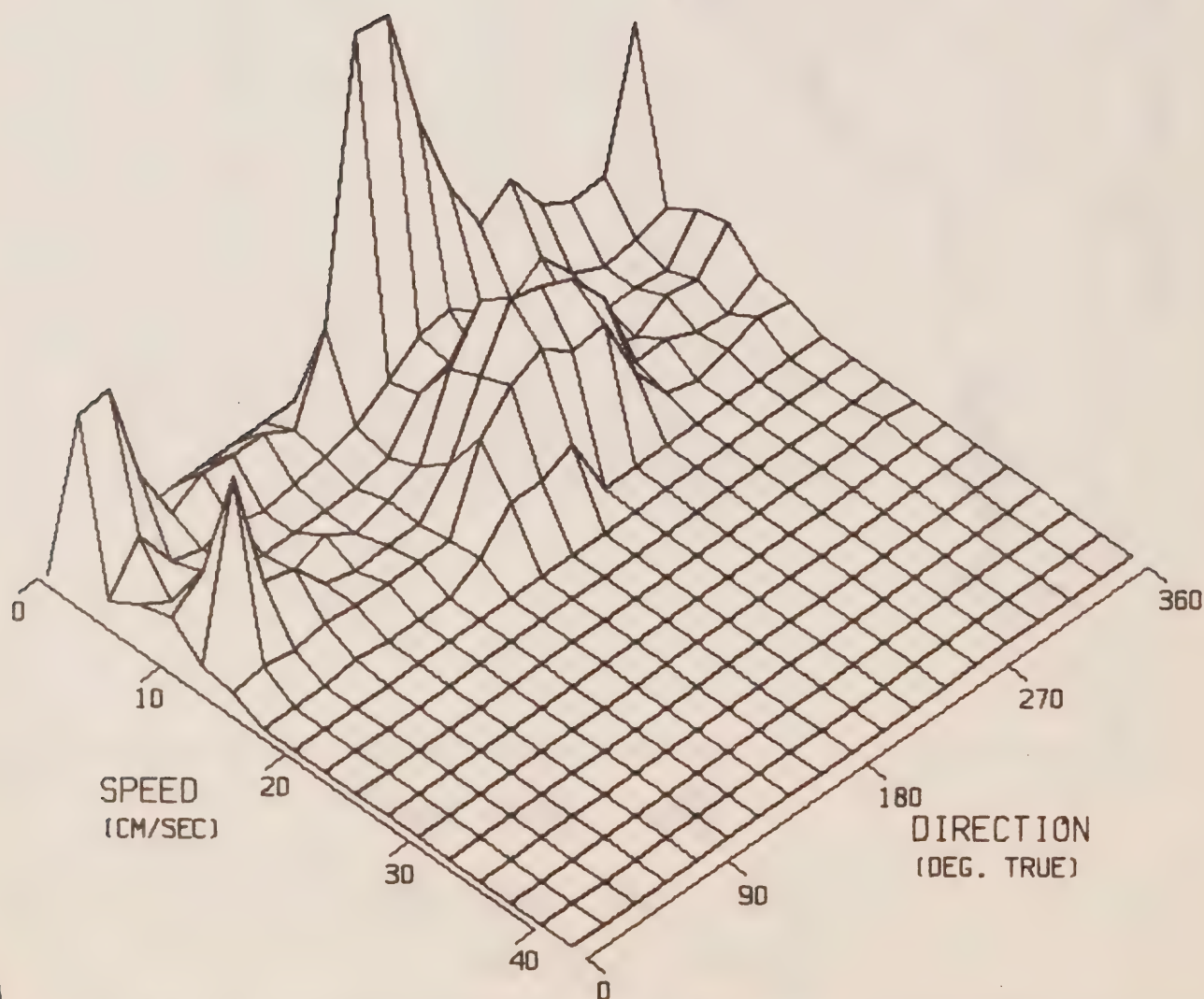


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 26/ 2/73

NO. OF SAMPLES = 1218



STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 26/ 2/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	031	009	018	003									61
15- 29	032	013	025	020									90
30- 44	015	007	014	013									49
45- 59	004	003	005	008	001								21
60- 74	005		003	005									13
75- 89	006	002	003	004									15
90-104	005		003	002									10
105-119	007		002	003									12
120-134	002	002	002	003									9
135-149	002	001	002	003	002								10
150-164	011	002	007	016	009								45
165-179	031	008	018	030	010								97
180-194	083	019	024	031	013								170
195-209	051	012	039	045	006								153
210-224	039	016	019	037									111
225-239	025	011	017	039									92
240-254	025	009	011	036									81
255-269	014	005	007	018									44
270-284	019	014	003	002									38
285-299	011	003	003	003									20
300-314	010	003	002	001									16
315-329	009	002	003	002									16
330-344	006	001	002	001			001						11
345-359	020	003	006	005									34
	463		238		41		1		0		0		1218
		145		330		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 26/02/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	40	80	120	160	200
3	0	0	.	.	.	.	.
9	0	0					
15	158	13	*****				
21	177	15	*****				
27	53	4	*****				
33	75	6	*****				
39	27	2	*****				
45	39	3	*****				
51	11	1	***				
57	27	2	*****				
63	10	1	***				
69	20	2	*****				
75	11	1	***				
81	13	1	***				
87	26	2	*****				
93	18	1	*****				
99	41	3	*****				
105	27	2	*****				
111	73	6	*****				
117	40	3	*****				
123	79	6	*****				
129	34	3	*****				
135	78	6	*****				
141	43	4	*****				
147	66	5	*****				
153	19	2	*****				
159	11	1	***				
165	17	1	****				
171	7	1	**				
177	9	1	**				
183	4	0	*				
189	4	0	*				
195	0	0					
201	0	0					
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 1  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1218  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 150M START DATE 26/02/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	30	60	90	120	150
5	44	4	*****	.	.	.	.
15	45	4	*****				
25	71	6	*****				
35	31	3	*****				
45	17	1	*****				
55	14	1	*****				
65	10	1	***				
75	6	0	**				
85	11	1	****				
95	9	1	***				
105	6	0	**				
115	8	1	***				
125	5	0	**				
135	8	1	***				
145	8	1	***				
155	29	2	*****				
165	43	4	*****				
175	78	6	*****				
185	104	9	*****				
195	120	10	*****				
205	96	8	*****				
215	76	6	*****				
225	70	6	*****				
235	53	4	*****				
245	57	5	*****				
255	35	3	*****				
265	30	2	*****				
275	24	2	*****				
285	23	2	*****				
295	11	1	****				
305	12	1	****				
315	5	0	**				
325	14	1	*****				
335	7	1	**				
345	14	1	*****				
355	24	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1218  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 26/02/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	120 .	240 .	360 .	480 .	600 .
7.91	0	0					
7.93	0	0					
7.95	0	0					
7.97	0	0					
7.99	0	0					
8.01	0	0					
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	1	0					
8.15	0	0					
8.17	0	0					
8.19	39	3	***				
8.21	381	31	*****				
8.23	482	40	*****				
8.25	0	0					
8.27	269	22	*****				
8.29	46	4	****				
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					

NO. OF SAMPLES OVER 8.70 = 0

NO. OF SAMPLES UNDER 7.90 = 0

TOTAL NO. OF OBSERVATIONS = 1218

SAMPLE INTERVAL = 10 MINUTES

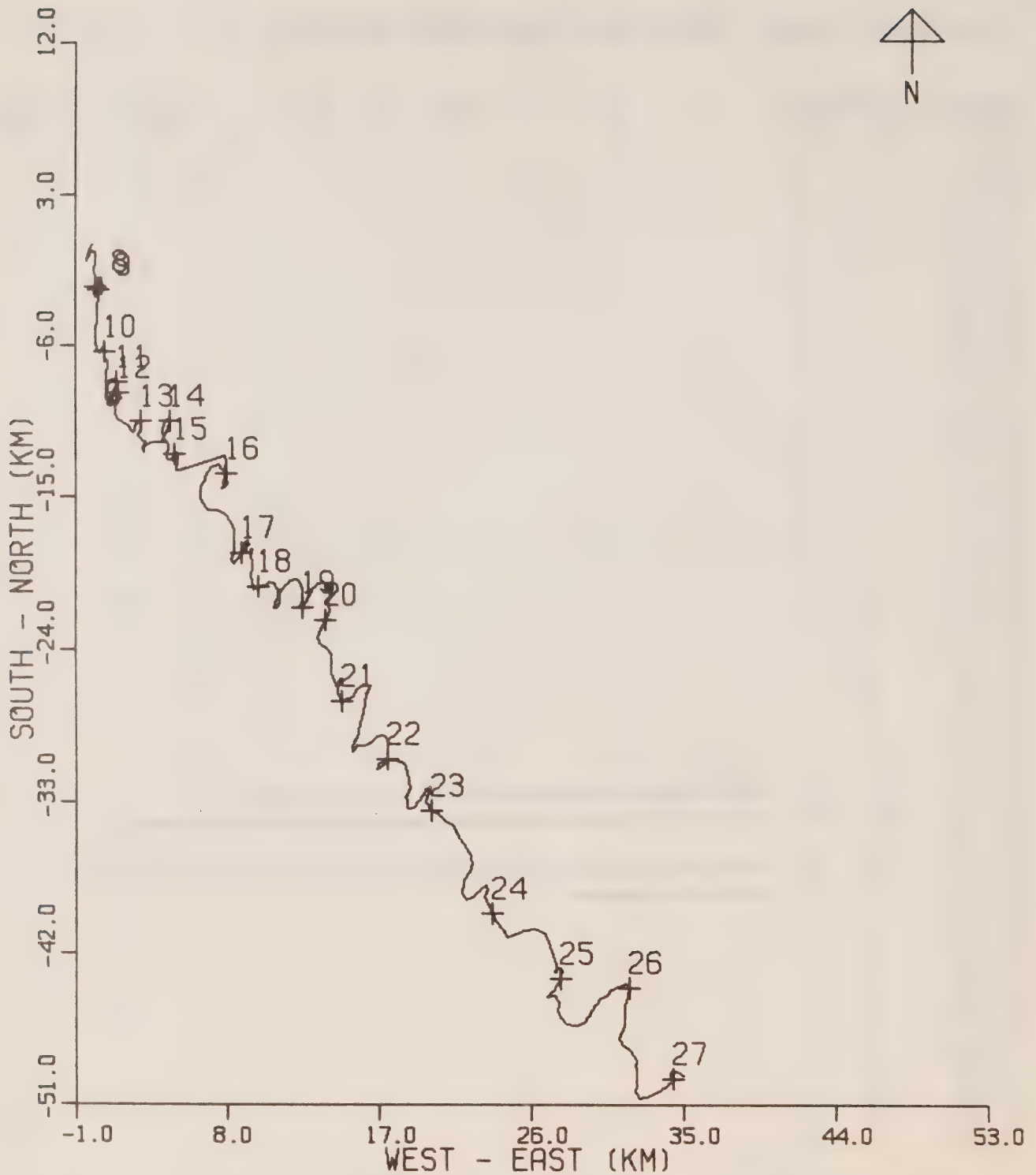


## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 26/02/73

MEDIAN (PPT)	FREQUENCY		80	160	240	320	400
	NO.	PCT .	.	.	.	.	.
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	0	0					
29.97	0	0					
29.99	0	0					
30.01	0	0					
30.03	0	0					
30.05	0	0					
30.07	0	0					
30.09	50	4	*****				
30.11	281	23	*****				
30.13	346	28	*****				
30.15	0	0					
30.17	430	35	*****				
30.19	107	9	*****				
30.21	2	0					
30.23	2	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0  
 NO. OF SAMPLES UNDER 29.60 = 0  
 TOTAL NO. OF OBSERVATIONS = 1218  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 7/ 3/73    ENDING DATE: 27/ 3/73

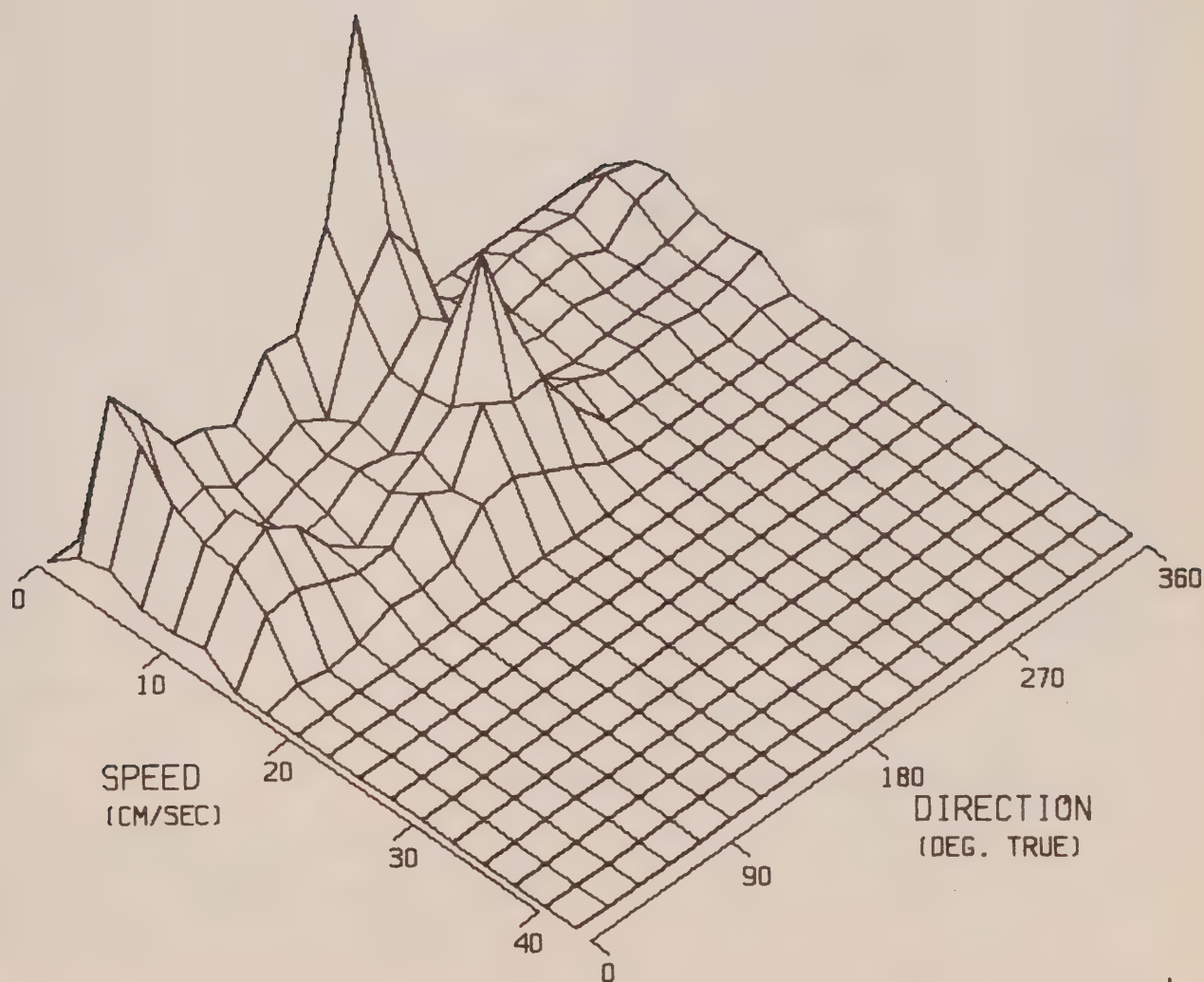
# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 7/ 3/73

NO. OF SAMPLES = 2872



STN. NO. HS-58 DEPTH 150 M.

STARTING DATE: 7/ 3/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	013	028	011	016									68
15- 29	071	088	062	042	001								264
30- 44	051	020	057	048	002								178
45- 59	034	025	020	037									116
60- 74	021	024	021	033	003								102
75- 89	025	014	019	021	008								87
90-104	019	021	015	014	006								75
105-119	029	031	018	022	003								103
120-134	029	019	032	041	011								132
135-149	039	020	021	036	022								138
150-164	060	064	033	056	022								235
165-179	109	091	082	085	015								382
180-194	127	093	072	089	019								400
195-209	069	056	050	062	010								247
210-224	024	026	032	033	001								116
225-239	008	007	008	009	003								35
240-254	005	009	008	010									32
255-269	003	005		003									11
270-284	006	007	003	005									21
285-299	006	010	003	006									25
300-314	009	004	005	001									19
315-329	005	002	004	002									13
330-344	011	016	006	005									38
345-359	011	009	004	004									28
	784		586	126		0		0		0		0	2865
		689		680		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 7

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 07/03/73

MEDIAN (MM/S)	FREQNCY NO.	PCT	50	100	150	200	250
3	0	0	.	.	.	.	.
9	0	0					
15	210	7	*****				
21	251	9	*****				
27	108	4	*****				
33	215	7	*****				
39	99	3	*****				
45	156	5	*****				
51	85	3	*****				
57	132	5	*****				
63	59	2	*****				
69	108	4	*****				
75	50	2	*****				
81	46	2	*****				
87	113	4	*****				
93	67	2	*****				
99	99	3	*****				
105	60	2	*****				
111	130	5	*****				
117	71	2	*****				
123	178	6	*****				
129	84	3	*****				
135	147	5	*****				
141	68	2	*****				
147	121	4	*****				
153	47	2	*****				
159	35	1	*****				
165	62	2	*****				
171	22	1	****				
177	31	1	*****				
183	8	0	**				
189	3	0	*				
195	0	0					
201	0	0					
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 7  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2872  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 07/03/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	60	120	180	240	300
5	40	1	*****	.	.	.	.
15	95	3	*****				
25	211	7	*****				
35	122	4	*****				
45	94	3	*****				
55	76	3	*****				
65	74	3	*****				
75	48	2	*****				
85	60	2	*****				
95	52	2	*****				
105	47	2	*****				
115	89	3	*****				
125	90	3	*****				
135	78	3	*****				
145	107	4	*****				
155	144	5	*****				
165	208	7	*****				
175	282	10	*****				
185	277	10	*****				
195	213	7	*****				
205	142	5	*****				
215	73	3	*****				
225	46	2	*****				
235	19	1	***				
245	24	1	***				
255	10	0	**				
265	7	0	*				
275	11	0	**				
285	20	1	***				
295	18	1	***				
305	12	0	**				
315	10	0	**				
325	7	0	*				
335	30	1	*****				
345	20	1	***				
355	16	1	***				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2872  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 07/03/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	180 .	360 .	540 .	720 .	900 .
7.91	0	0					
7.93	0	0					
7.95	0	0					
7.97	0	0					
7.99	0	0					
8.01	0	0					
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	2	0					
8.19	101	4	*****				
8.21	737	26	*****				
8.23	1252	44	*****				
8.25	0	0					
8.27	668	23	*****				
8.29	107	4	*****				
8.31	5	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					

NO. OF SAMPLES OVER 8.70 = 0  
 NO. OF SAMPLES UNDER 7.90 = 0  
 TOTAL NO. OF OBSERVATIONS = 2872  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 07/03/73

MEDIAN (PPT)	FREQUENCY		160	320	480	640	800
	NO.	PCT .	.	.	.	.	.
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	0	0					
29.97	0	0					
29.99	0	0					
30.01	0	0					
30.03	0	0					
30.05	0	0					
30.07	45	2	***				
30.09	593	21	*****				
30.11	658	23	*****				
30.13	826	29	*****				
30.15	2	0					
30.17	659	23	*****				
30.19	86	3	*****				
30.21	1	0					
30.23	1	0					
30.25	0	0					
30.27	0	0					
30.29	1	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2872

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-55

DEPTH 150 M.

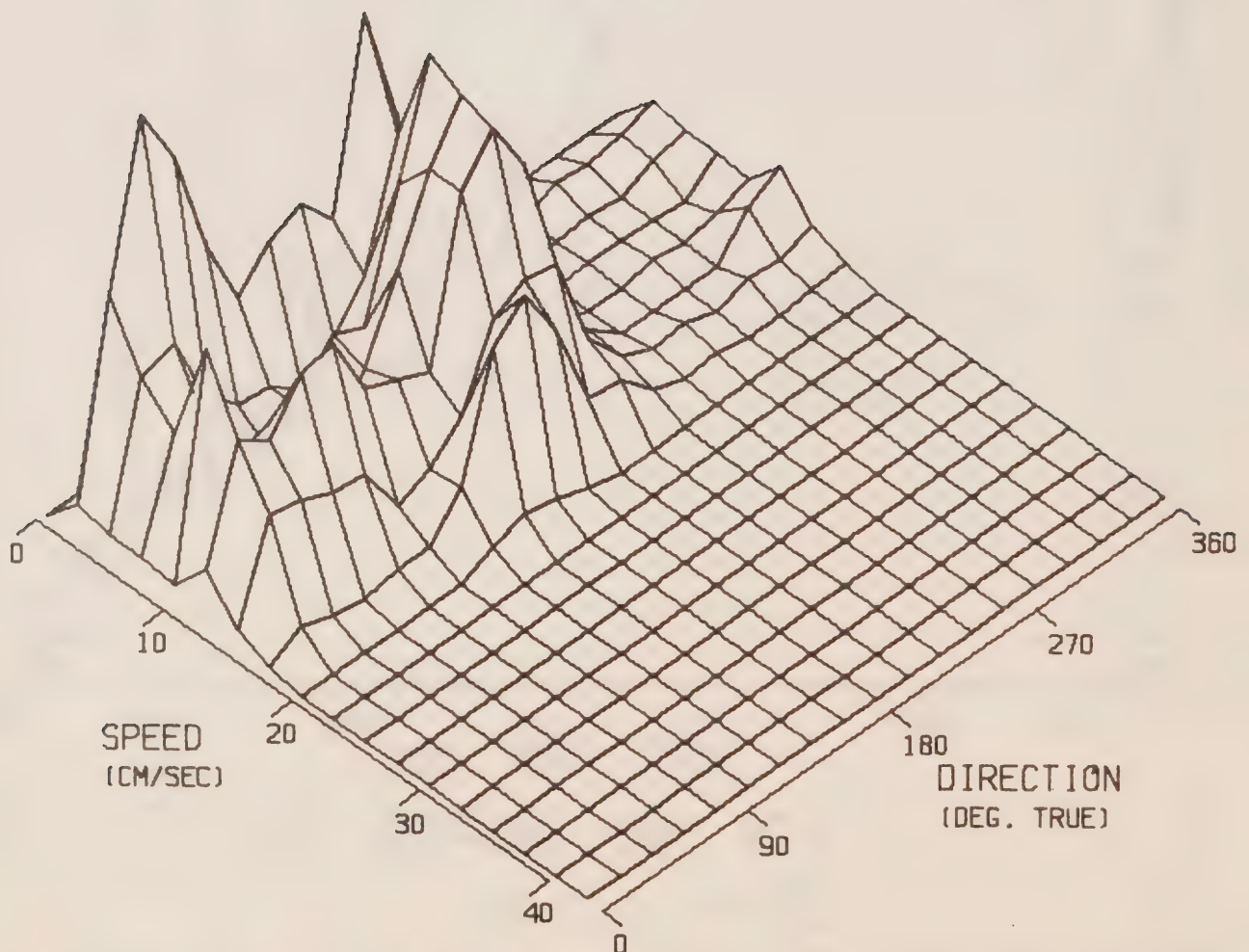
STARTING DATE: 27/ 3/73    ENDING DATE: 17/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 27/ 3/73

NO. OF SAMPLES = 3000





STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 27/ 3/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	011	020	009	022	001								63
15- 29	050	048	083	050	005								236
30- 44	084	053	048	043	005								233
45- 59	064	037	028	040	001								170
60- 74	054	022	047	059	003								185
75- 89	040	018	040	041	003								142
90-104	028	018	022	028	003								99
105-119	030	028	035	027	007								127
120-134	040	015	039	030	019								143
135-149	032	024	052	024	040								172
150-164	024	047	074	049	052								246
165-179	046	079	121	077	036								359
180-194	075	078	105	073	021								352
195-209	034	047	054	063	010								208
210-224	012	025	026	028	009								100
225-239	009	007	010	013	006								45
240-254	005	006	004	005	003								23
255-269	004		002	003									9
270-284	001	002	001	003	001								8
285-299	006	002	004	004	001								17
300-314	001	001	001										3
315-329	003	001	001	005									10
330-344	006	004	006	005	001								22
345-359	005	004	006	006	001								22
	664		818		228		0		0		0		2994
		586		698		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 6

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 27/03/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	50	100	150	200	250
3	0 0	.	.	.	.	.
9	0 0					
15	183 6	*****				
21	237 8	*****				
27	85 3	*****				
33	159 5	*****				
39	62 2	*****				
45	112 4	*****				
51	63 2	*****				
57	107 4	*****				
63	51 2	*****				
69	110 4	*****				
75	81 3	*****				
81	75 3	*****				
87	156 5	*****				
93	83 3	*****				
99	143 5	*****				
105	86 3	*****				
111	182 6	*****				
117	93 3	*****				
123	204 7	*****				
129	79 3	*****				
135	137 5	*****				
141	66 2	*****				
147	116 4	*****				
153	61 2	*****				
159	35 1	*****				
165	81 3	*****				
171	30 1	*****				
177	61 2	*****				
183	20 1	****				
189	30 1	*****				
195	6 0	*				
201	0 0					
207	0 0					
213	0 0					
219	0 0					
225	0 0					
231	0 0					
237	0 0					

NO. OF SAMPLES OVER 240 = 6  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 150M START DATE 27/03/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT.	50	100	150	200	250
5	39	1	*****	.	.	.	.
15	59	2	*****				
25	227	8	*****	*****	*****	*****	*****
35	155	5	*****	*****	*****		
45	126	4	*****	*****			
55	108	4	*****	*****			
65	127	4	*****	*****			
75	119	4	*****	*****			
85	81	3	*****				
95	61	2	*****				
105	70	2	*****				
115	93	3	*****				
125	82	3	*****				
135	116	4	*****				
145	126	4	*****				
155	164	5	*****				
165	202	7	*****				
175	246	8	*****	*****	*****	*****	*****
185	245	8	*****	*****	*****	*****	*****
195	189	6	*****	*****	*****		
205	115	4	*****				
215	71	2	*****				
225	46	2	*****				
235	20	1	***				
245	17	1	***				
255	8	0	**				
265	6	0	*				
275	4	0	*				
285	9	0	**				
295	12	0	**				
305	2	0					
315	4	0	*				
325	8	0	**				
335	16	1	***				
345	13	0	***				
355	14	0	***				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 27/03/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	190 .	380 .	570 .	760 .	950 .
7.91	0	0					
7.93	0	0					
7.95	0	0					
7.97	0	0					
7.99	0	0					
8.01	0	0					
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	0	0					
8.19	0	0					
8.21	201	7	*****				
8.23	1776	59	*****				
8.25	0	0					
8.27	922	31	*****				
8.29	98	3	*****				
8.31	3	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					

NO. OF SAMPLES OVER 8.70 = 0

NO. OF SAMPLES UNDER 7.90 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 150M START DATE 27/03/73

MEDIAN (PPT)	FREQUENCY NO.	PCT .	180	360	540	720	900
29.61	0	0	.	.	.	.	.
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	0	0					
29.97	0	0					
29.99	0	0					
30.01	0	0					
30.03	0	0					
30.05	0	0					
30.07	453	15	*****				
30.09	1608	54	*****				
30.11	204	7	*****				
30.13	567	19	*****				
30.15	0	0					
30.17	167	6	*****				
30.19	0	0					
30.21	0	0					
30.23	0	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	1	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

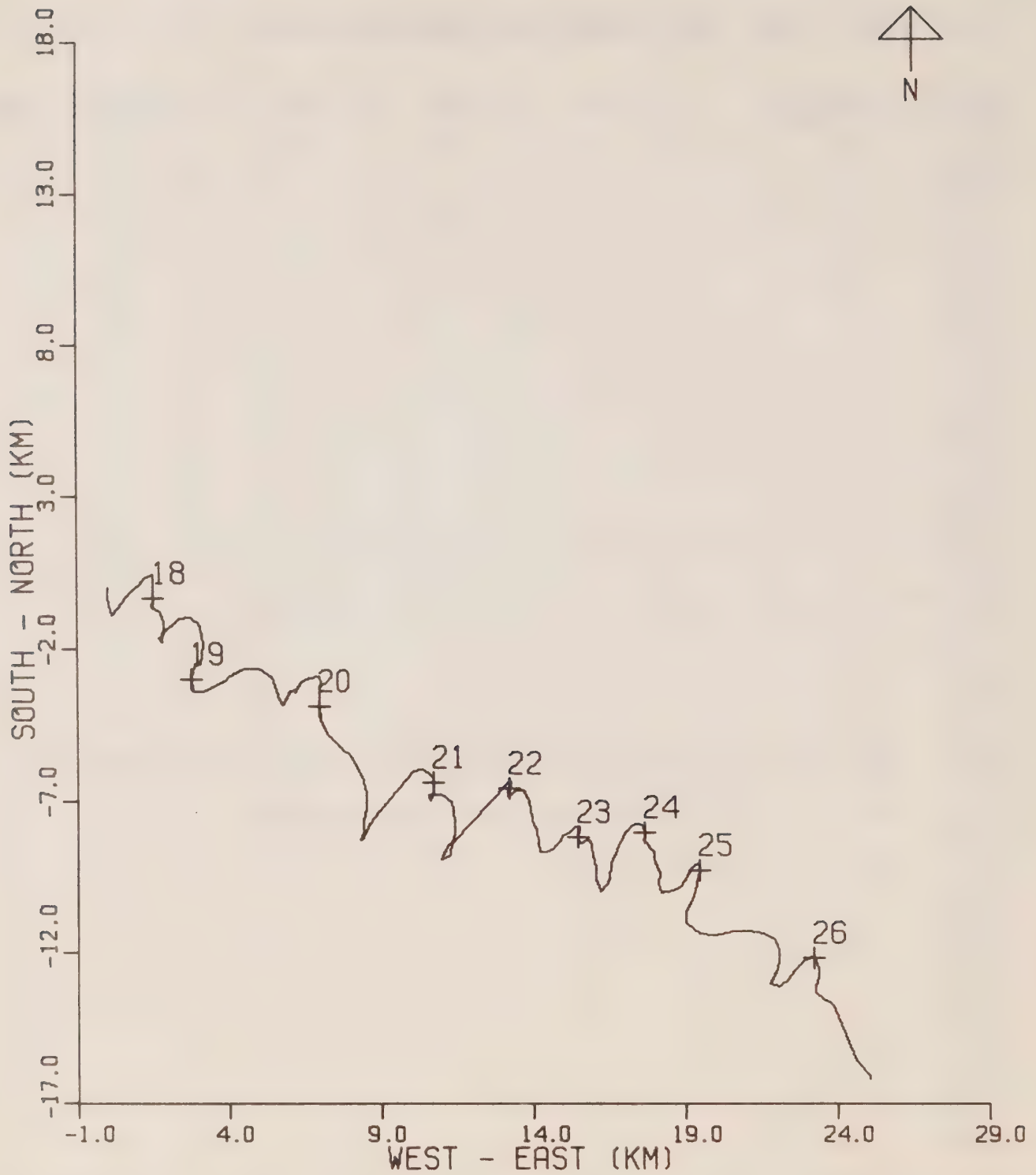
NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5S

DEPTH 150 M.

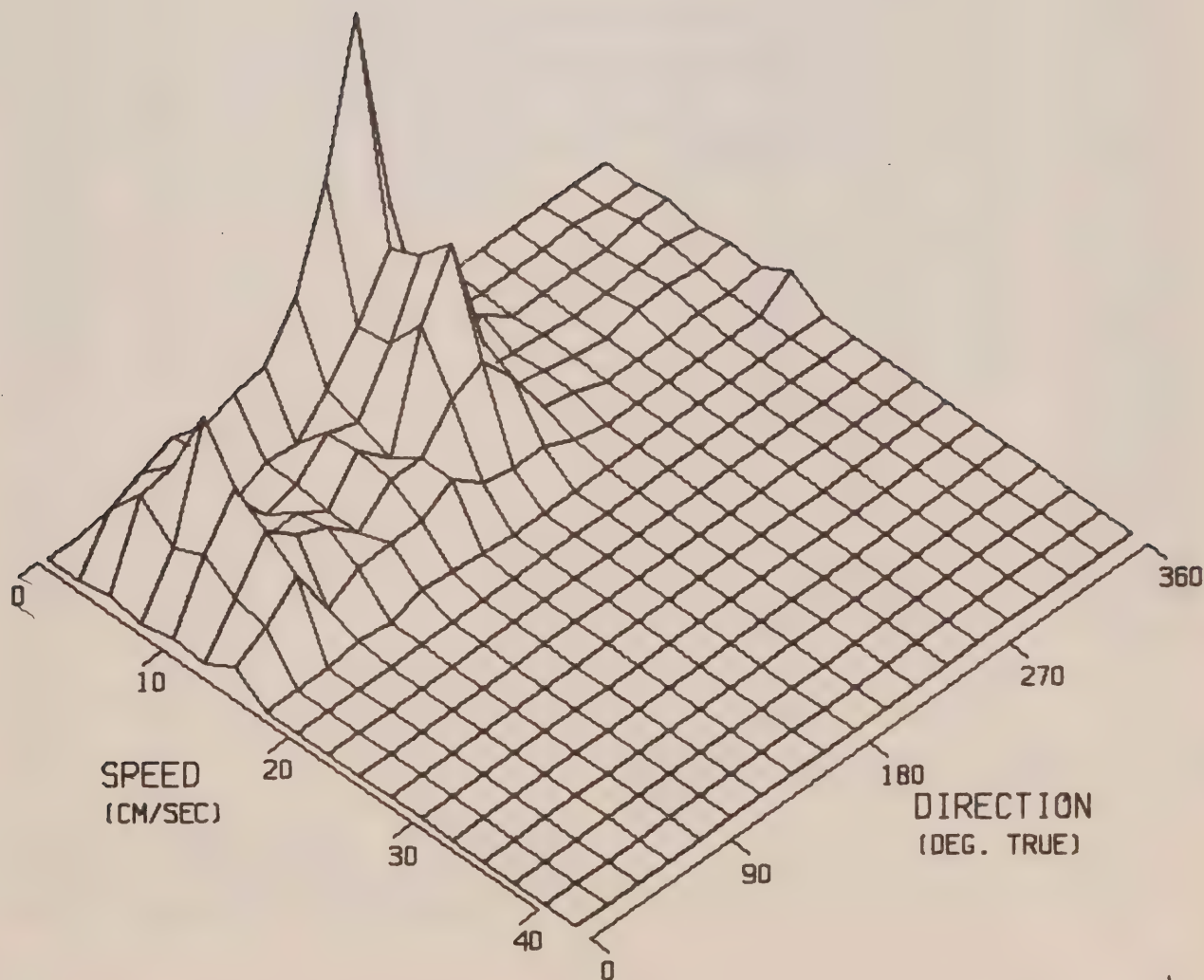
STARTING DATE: 17/ 4/73    ENDING DATE: 26/ 4/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 17/ 4/73

NO. OF SAMPLES = 1331



STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 17/ 4/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14		001	003	005									9
15- 29	012	035	026	016									89
30- 44	013	047	044	024									128
45- 59	018	040	028	008									90
60- 74	009	011	015	008	001								40
75- 89	015	006	017	013									51
90-104	017	009	007	011	002								46
105-119	018	014	018	008	002								60
120-134	015	009	020	018	001								63
135-149	029	018	019	018	001								85
150-164	037	030	034	016									117
165-179	062	055	077	016									210
180-194	073	042	039	020									174
195-209	031	021	026	013									91
210-224	010	004	006	006									26
225-239	002	005	001	001									9
240-254		004	005	001									10
255-269			001										1
270-284			001										1
285-299			002										2
300-314	001												1
315-329		001	003										4
330-344		004	001										5
345-359		001		002									3
	362		393		7		0		0		0		1323
		357		204		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 8

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 17/04/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	30	60	90	120	150
3	0 0	.	.	.	.	.
9	0 0					
15	90 7	*****				
21	135 10	*****				
27	47 4	*****				
33	90 7	*****				
39	27 2	*****				
45	86 6	*****				
51	32 2	*****				
57	62 5	*****				
63	37 3	*****				
69	77 6	*****				
75	36 3	*****				
81	31 2	*****				
87	74 6	*****				
93	35 3	*****				
99	75 6	*****				
105	43 3	*****				
111	93 7	*****				
117	42 3	*****				
123	49 4	*****				
129	28 2	*****				
135	39 3	*****				
141	17 1	*****				
147	49 4	*****				
153	16 1	*****				
159	6 0	**				
165	7 1	**				
171	0 0					
177	0 0					
183	0 0					
189	0 0					
195	0 0					
201	0 0					
207	0 0					
213	0 0					
219	0 0					
225	0 0					
231	0 0					
237	0 0					

NO. OF SAMPLES OVER 240 = 8  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1331  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 150M START DATE 17/04/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	30	60	90	120	150
5	8	1	***	.	.	.	.
15	8	1	***				
25	86	6	*****				
35	84	6	*****				
45	81	6	*****				
55	59	4	*****				
65	33	2	*****				
75	37	3	*****				
85	26	2	*****				
95	24	2	*****				
105	40	3	*****				
115	43	3	*****				
125	46	3	*****				
135	43	3	*****				
145	63	5	*****				
155	73	5	*****				
165	117	9	*****				
175	145	11	*****				
185	133	10	*****				
195	82	6	*****				
205	41	3	*****				
215	20	2	*****				
225	7	1	**				
235	5	0	**				
245	10	1	***				
255	1	0					
265	1	0					
275	0	0					
285	0	0					
295	2	0	*				
305	0	0					
315	2	0	*				
325	3	0	*				
335	4	0	*				
345	1	0					
355	3	0	*				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1331  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 17/04/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	120 .	240 .	360 .	480 .	600 .
7.91	0	0					
7.93	0	0					
7.95	0	0					
7.97	0	0					
7.99	0	0					
8.01	0	0					
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	0	0					
8.19	0	0					
8.21	55	4					
8.23	590	44					
8.25	0	0					
8.27	560	42					
8.29	118	9					
8.31	8	1					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					

NO. OF SAMPLES OVER 8.70 = 0  
 NO. OF SAMPLES UNDER 7.90 = 0  
 TOTAL NO. OF OBSERVATIONS = 1331  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 17/04/73

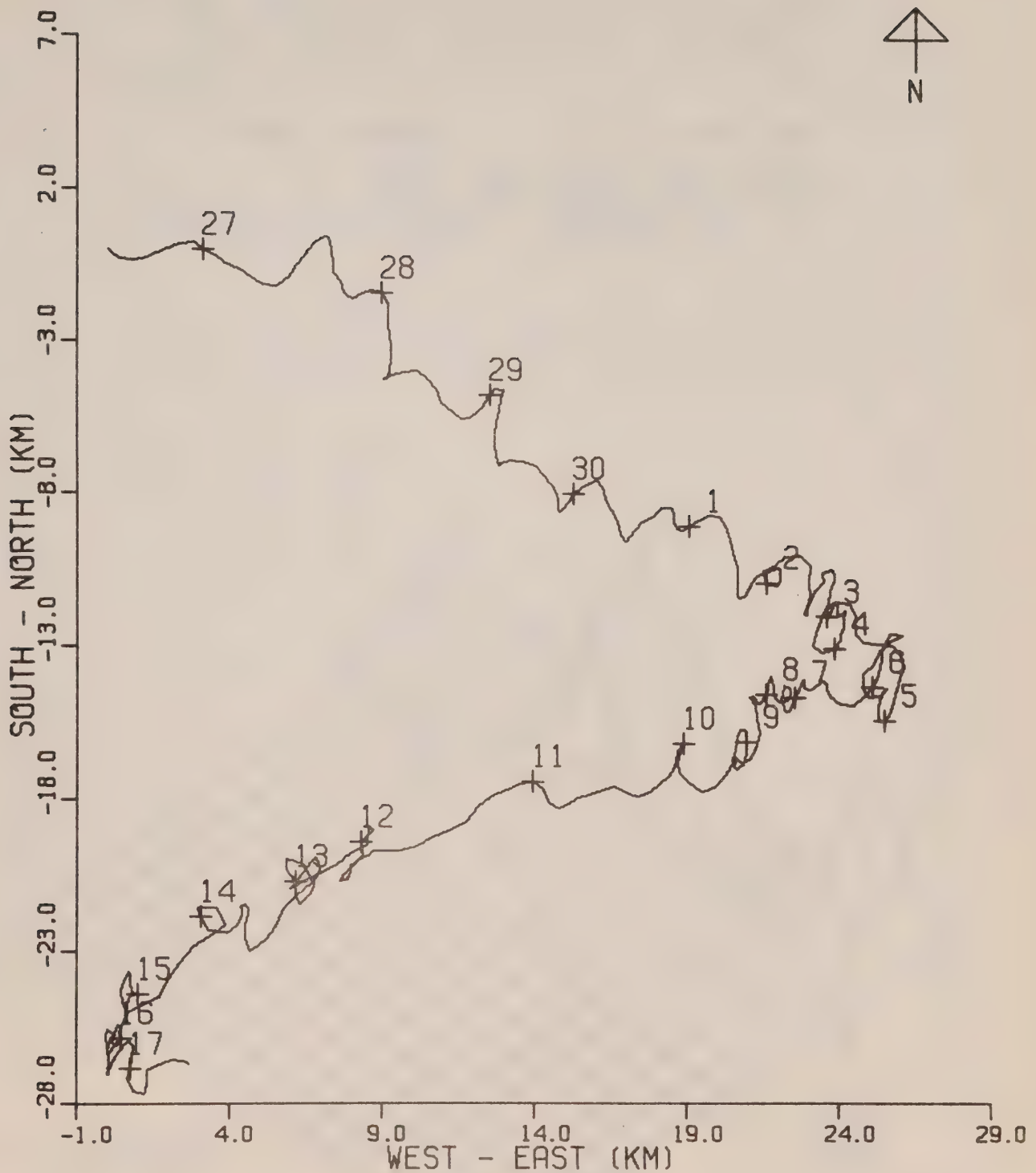
MEDIAN (PPT)	FREQUENCY NO. PCT .	100 .	200 .	300 .	400 .	500 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	0 0					
30.01	0 0					
30.03	0 0					
30.05	3 0					
30.07	444 33	*****				
30.09	586 44	*****				
30.11	63 5	*****				
30.13	231 17	*****				
30.15	0 0					
30.17	4 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 1331

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

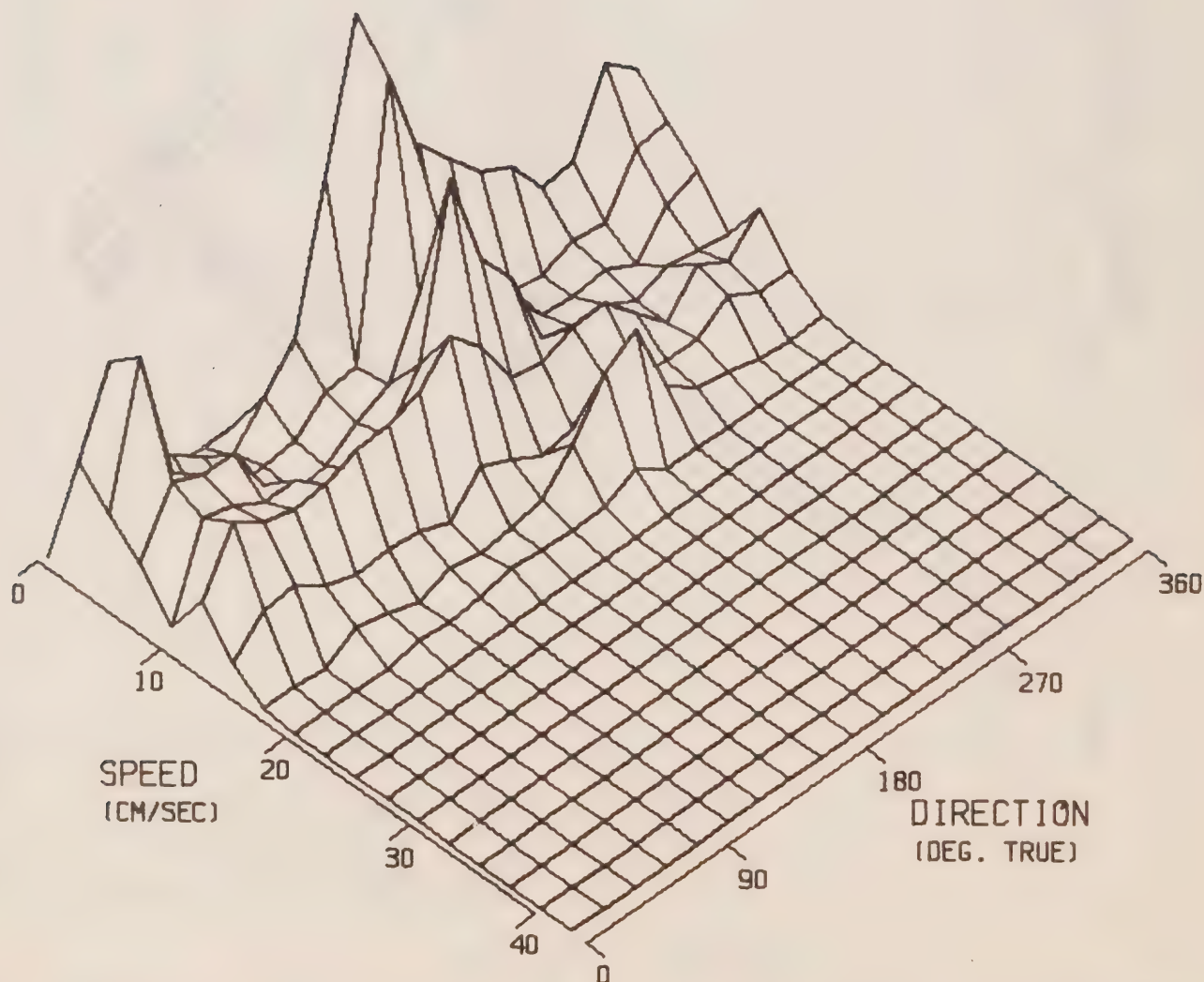
STARTING DATE: 26/ 4/73    ENDING DATE: 17/ 5/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 26/ 4/73

NO. OF SAMPLES = 2990



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 26/ 4/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

DIR	000 TO	040 TO	080 TO	120 TO	160 TO	200 TO	240 TO	280 TO	320 TO	360 TO	400 TO	440 TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	036	034	015	015	001								101
15- 29	054	079	053	039	001								226
30- 44	021	040	046	039									146
45- 59	014	027	038	026	003								108
60- 74	016	020	032	028	003								99
75- 89	007	009	034	028	005								83
90-104	005	008	021	032	002								68
105-119	011	017	018	032	002	001							81
120-134	011	007	019	025	003								65
135-149	024	022	033	024	006								109
150-164	043	023	041	036	005								148
165-179	083	060	081	022	005								251
180-194	091	122	089	020	004								326
195-209	057	077	062	010	015								221
210-224	051	037	045	006	027								166
225-239	050	021	035	026	037								169
240-254	032	023	021	027	027								130
255-269	026	006	013	021	008								74
270-284	025	010	011	018	007								71
285-299	021	008	018	005	002								54
300-314	016	013	006	016	002								53
315-329	018	009	013	022	001								63
330-344	031	026	011	013									81
345-359	031	039	009	018									97
	774		764		166		0		0		0		2990
		737		548		1		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 26/04/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	60	120	180	240	300
3	0	0	.	.	.	.	.
9	0	0					
15	66	2	*****				
21	272	9	*****				
27	131	4	*****				
33	305	10	*****				
39	102	3	*****				
45	180	6	*****				
51	82	3	*****				
57	124	4	*****				
63	64	2	*****				
69	128	4	*****				
75	57	2	*****				
81	54	2	*****				
87	151	5	*****				
93	72	2	*****				
99	156	5	*****				
105	79	3	*****				
111	163	5	*****				
117	89	3	*****				
123	177	6	*****				
129	84	3	*****				
135	146	5	*****				
141	48	2	*****				
147	61	2	*****				
153	17	1	***				
159	15	1	***				
165	38	1	*****				
171	13	0	**				
177	38	1	*****				
183	30	1	*****				
189	36	1	*****				
195	7	0	*				
201	5	0	*				
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0

NO. OF SAMPLES UNDER 0 = 0

TOTAL NO. OF OBSERVATIONS = 2990

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 26/04/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	70	2	*****				
15	84	3	*****				
25	191	6	*****				
35	95	3	*****				
45	80	3	*****				
55	69	2	*****				
65	71	2	*****				
75	59	2	*****				
85	48	2	*****				
95	45	2	*****				
105	40	1	*****				
115	65	2	*****				
125	38	1	*****				
135	61	2	*****				
145	74	2	*****				
155	102	3	*****				
165	124	4	*****				
175	198	7	*****				
185	229	8	*****				
195	158	5	*****				
205	144	5	*****				
215	108	4	*****				
225	118	4	*****				
235	106	4	*****				
245	77	3	*****				
255	80	3	*****				
265	43	1	*****				
275	47	2	*****				
285	45	2	*****				
295	32	1	*****				
305	33	1	*****				
315	41	1	*****				
325	39	1	*****				
335	58	2	*****				
345	62	2	*****				
355	56	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2990  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5S DEPTH 150M START DATE 26/04/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	190 .	380 .	570 .	760 .	950 .
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	0	0					
8.19	0	0					
8.21	144	5					
8.23	1327	44					
8.25	0	0					
8.27	1292	43					
8.29	220	7					
8.31	7	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 2990

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 150M START DATE 26/04/73

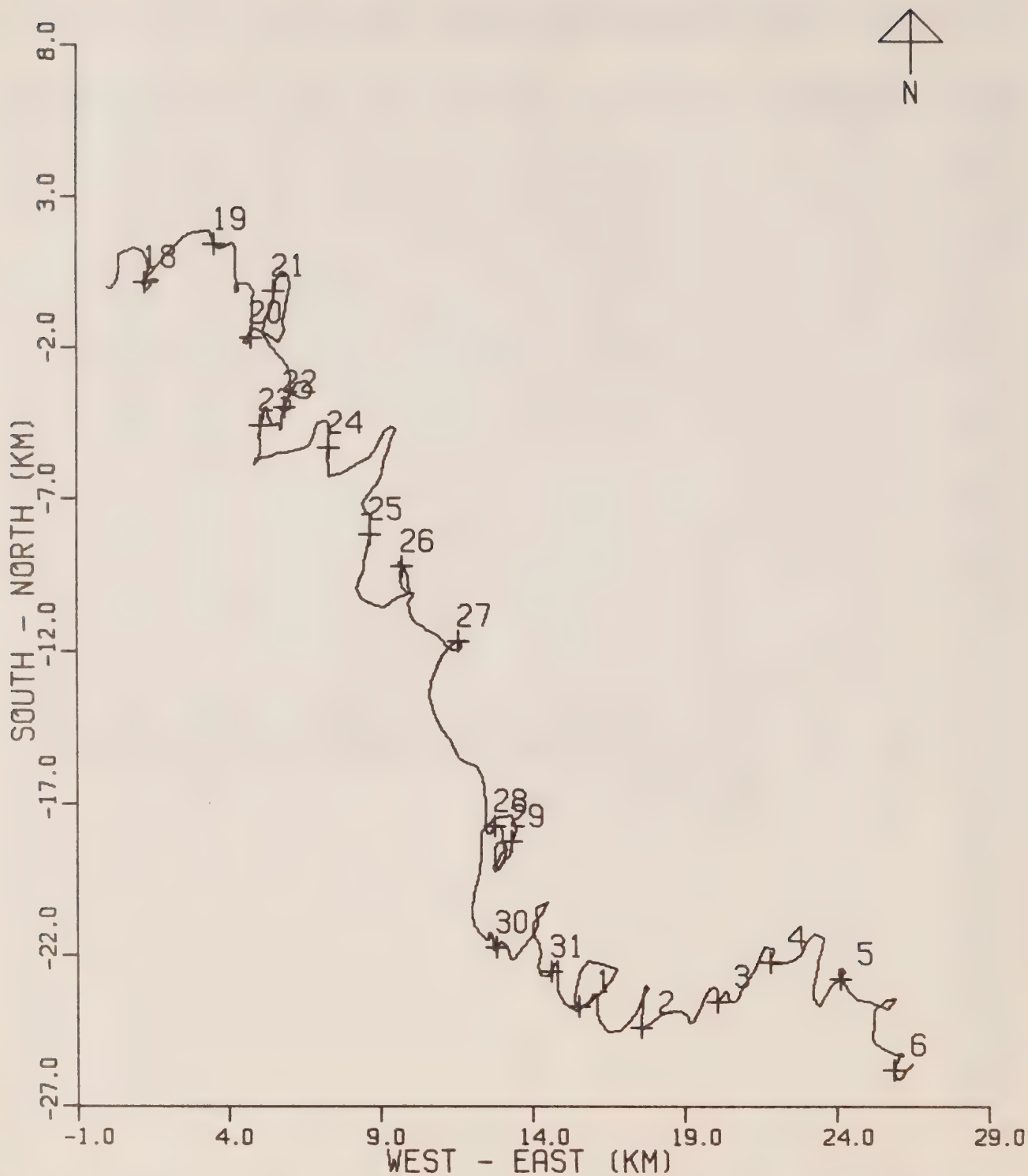
MEDIAN (PPT)	FREQINCY NO. PCT .	140 .	280 .	420 .	560 .	700 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	0 0					
30.01	0 0					
30.03	11 0	*				
30.05	73 2	*****				
30.07	1173 39	*****				
30.09	1327 44	*****				
30.11	139 5	*****				
30.13	266 9	*****				
30.15	0 0					
30.17	0 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 1

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2990

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

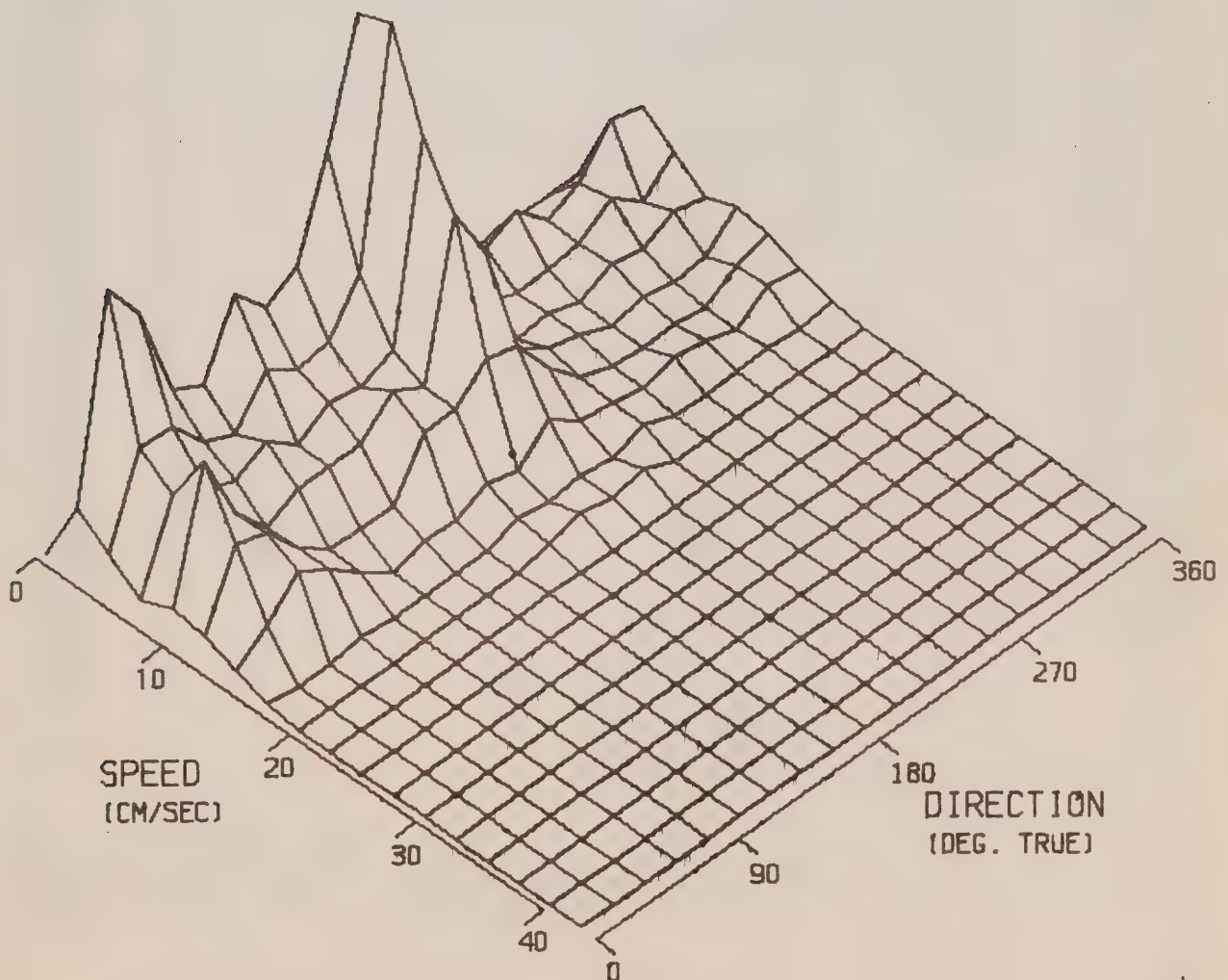
DEPTH 150 M.

STARTING DATE: 17/ 5/73    ENDING DATE: 6/ 6/73



# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.  
STARTING DATE: 17/ 5/73  
NO. OF SAMPLES = 2889



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 17/5/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0-14	017	014	017	017	001								66
15-29	084	062	090	020									256
30-44	070	056	047	034									207
45-59	049	037	040	024									150
60-74	026	046	032	019	002								125
75-89	032	029	031	009									101
90-104	034	040	031	002									107
105-119	063	040	034	008									145
120-134	030	045	032	006									113
135-149	047	044	042	016		001							150
150-164	052	049	044	024	002	002							173
165-179	114	107	077	011	004	002							315
180-194	082	176	107	019	004	003							391
195-209	036	045	066	029	003	001							180
210-224	010	019	027	011	006	002							75
225-239	011	019	016	010	003								59
240-254	020	002	010	006	003								41
255-269	010	008	005	003	001								27
270-284	014	006	001	006									27
285-299	009	010	005	007									31
300-314	011	007	001	001	001								21
315-329	006	016	005		001								28
330-344	023	010	006	009									48
345-359	022	013	013	004	001								53
	872		779		32		0		0		0		2889
	907		295		11		0		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 17/05/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT .	70	140	210	280	350
3	0	0	.	.	.	.	.
9	0	0					
15	158	5	*****				
21	315	11	*****				
27	141	5	*****				
33	258	9	*****				
39	123	4	*****				
45	232	8	*****				
51	85	3	*****				
57	183	6	*****				
63	73	3	*****				
69	142	5	*****				
75	62	2	*****				
81	72	2	*****				
87	171	6	*****				
93	69	2	*****				
99	158	5	*****				
105	73	3	*****				
111	168	6	*****				
117	68	2	*****				
123	91	3	*****				
129	28	1	****				
135	52	2	*****				
141	34	1	*****				
147	53	2	*****				
153	10	0	*				
159	27	1	****				
165	9	0	*				
171	2	0					
177	4	0	*				
183	2	0					
189	10	0	*				
195	2	0					
201	7	0	*				
207	1	0					
213	6	0	*				
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2889  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 17/05/73

MEDIAN (DEG.T)	FREQINCY NO.	PCT	60	120	180	240	300
5	47	2	*****				
15	64	2	*****				
25	236	8	*****				
35	129	4	*****				
45	126	4	*****				
55	87	3	*****				
65	78	3	*****				
75	68	2	*****				
85	76	3	*****				
95	75	3	*****				
105	91	3	*****				
115	91	3	*****				
125	65	2	*****				
135	104	4	*****				
145	89	3	*****				
155	121	4	*****				
165	135	5	*****				
175	248	9	*****				
185	276	10	*****				
195	184	6	*****				
205	94	3	*****				
215	48	2	*****				
225	47	2	*****				
235	36	1	*****				
245	31	1	*****				
255	19	1	***				
265	19	1	***				
275	17	1	***				
285	19	1	***				
295	21	1	****				
305	13	0	**				
315	19	1	***				
325	17	1	***				
335	31	1	*****				
345	32	1	*****				
355	36	1	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2889  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 17/05/73

MEDIAN (DEG.C)	FREQUENCY NO.	PERCENT PCT	190	380	570	760	950
8.11	0	0	.	.	.	.	.
8.13	0	0					
8.15	0	0					
8.17	1	0					
8.19	32	1					
8.21	401	14	*****				
8.23	1347	47	*****				
8.25	0	0					
8.27	981	34	*****				
8.29	119	4	*****				
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 2889

SAMPLE INTERVAL = 10 MINUTES

RELEASED.



## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 150M START DATE 17/05/73

MEDIAN (PPT)	FREQUENCY NO. PCT .	140 .	280 .	420 .	560 .	700 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	5 0					
30.01	69 2	*****				
30.03	178 6	*****				
30.05	104 4	*****				
30.07	964 33	*****				
30.09	1278 44	*****				
30.11	231 8	*****				
30.13	60 2	****				
30.15	0 0					
30.17	0 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

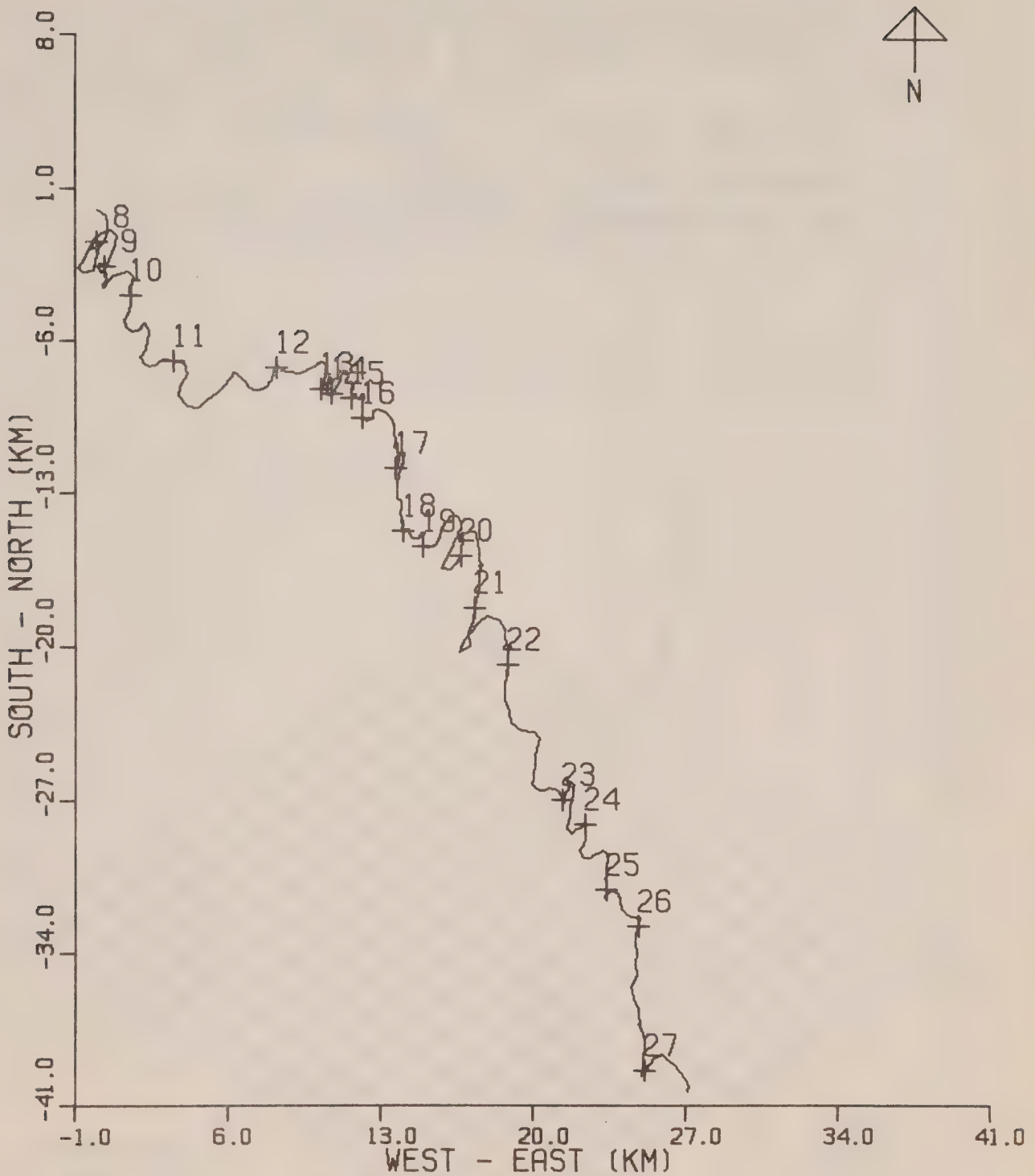
NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2889

SAMPLE INTERVAL = 10 MINUTES

LEASED.



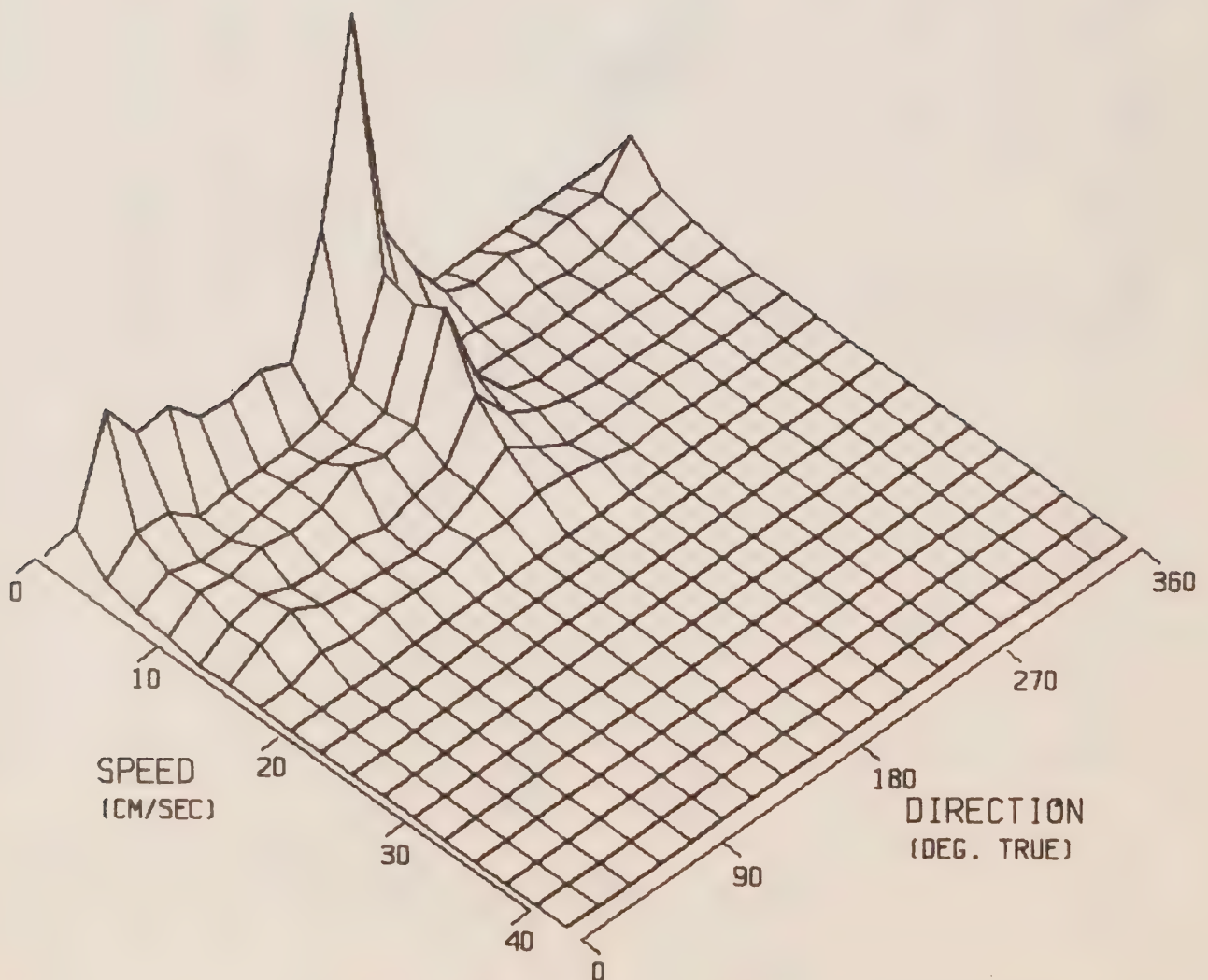
STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 7/ 6/73    ENDING DATE: 27/ 6/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.  
STARTING DATE: 7/ 6/73  
NO. OF SAMPLES = 2878



STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 7/ 6/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

DIR	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	033	017	009	004	001								64
15- 29	102	041	033	025	001								202
30- 44	067	032	025	031	009								164
45- 59	070	029	018	027	006								150
60- 74	053	018	028	010	004								113
75- 89	046	020	021	010	007								104
90-104	043	027	026	014	005								115
105-119	056	023	031	006	004								120
120-134	031	022	042	004	008								107
135-149	044	028	030	013	010								125
150-164	089	037	036	013	011								186
165-179	189	078	085	042	004								398
180-194	215	125	147	041	018								546
195-209	063	023	050	021	009								166
210-224	037	012	015	011	006								81
225-239	037	004	010	004	003								58
240-254	011	009	004	004									28
255-269	008	003	004	003	003								21
270-284	012	003	002	004									21
285-299	009	007	003	003									22
300-314	002	004	001										7
315-329	008	002	001	002									13
330-344	008	007	007	004									26
345-359	022	011	007	001									41
	1255	635		109		0		0		0		0	2878
	582		297		0		0		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M START DATE 07/06/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	100	200	300	400	500
3	0	0	.	.	.	.	.
9	0	0					
15	220	8	*****				
21	468	16	*****				
27	212	7	*****				
33	355	12	*****				
39	115	4	*****				
45	126	4	*****				
51	48	2	*****				
57	94	3	*****				
63	31	1	***				
69	114	4	*****				
75	54	2	*****				
81	66	2	*****				
87	112	4	*****				
93	65	2	*****				
99	150	5	*****				
105	75	3	*****				
111	124	4	*****				
117	43	1	****				
123	68	2	*****				
129	31	1	***				
135	52	2	*****				
141	29	1	***				
147	63	2	*****				
153	29	1	***				
159	25	1	***				
165	59	2	*****				
171	15	1	**				
177	23	1	**				
183	9	0	*				
189	3	0					
195	0	0					
201	0	0					
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 07/06/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	90	180	270	360	450
5	43	1	*****				
15	64	2	*****				
25	176	6	*****				
35	96	3	*****				
45	117	4	*****				
55	93	3	*****				
65	78	3	*****				
75	72	3	*****				
85	68	2	*****				
95	85	3	*****				
105	63	2	*****				
115	81	3	*****				
125	76	3	*****				
135	80	3	*****				
145	79	3	*****				
155	114	4	*****				
165	180	6	*****				
175	324	11	*****				
185	421	15	*****				
195	159	6	*****				
205	97	3	*****				
215	49	2	*****				
225	65	2	*****				
235	22	1	**				
245	21	1	**				
255	14	0	**				
265	11	0	*				
275	16	1	**				
285	16	1	**				
295	11	0	*				
305	5	0	*				
315	7	0	*				
325	10	0	*				
335	18	1	**				
345	18	1	**				
355	29	1	***				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2878  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 07/06/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	180	360	540	720	900
8.11	0	0	.	.	.	.	.
8.13	2	0					
8.15	42	1	**				
8.17	224	8	*****				
8.19	836	29	*****				
8.21	857	30	*****				
8.23	582	20	*****				
8.25	0	0					
8.27	295	10	*****				
8.29	40	1	**				
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 2878

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 150M START DATE 07/06/73

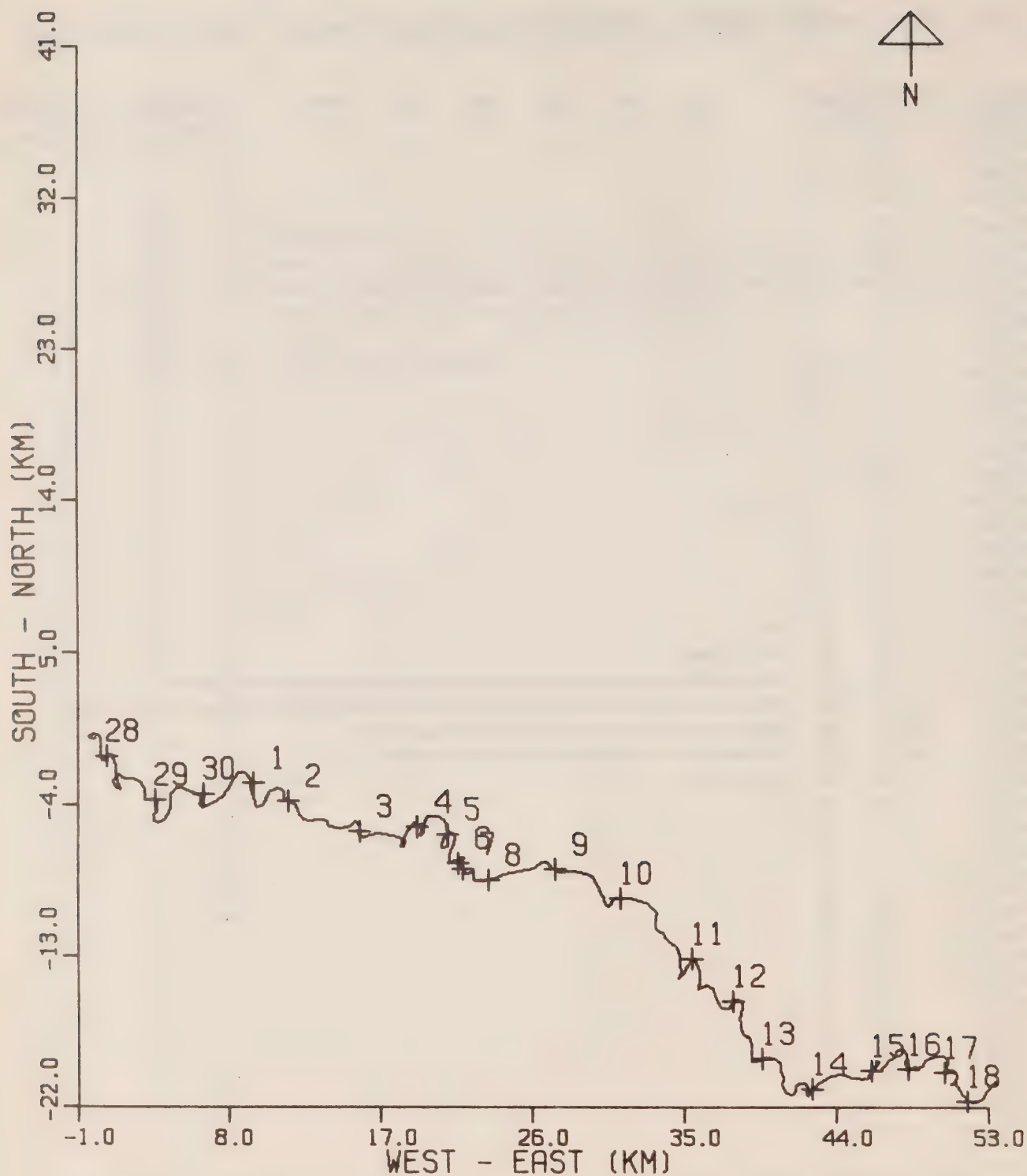
MEDIAN (PPT)	FREQUENCY NO. PCT .	180 .	360 .	540 .	720 .	900 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	12 0					
30.01	131 5					
30.03	735 26					
30.05	872 30					
30.07	507 18					
30.09	493 17					
30.11	124 4					
30.13	4 0					
30.15	0 0					
30.17	0 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2878

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 27/ 6/73    ENDING DATE: 18/ 7/73

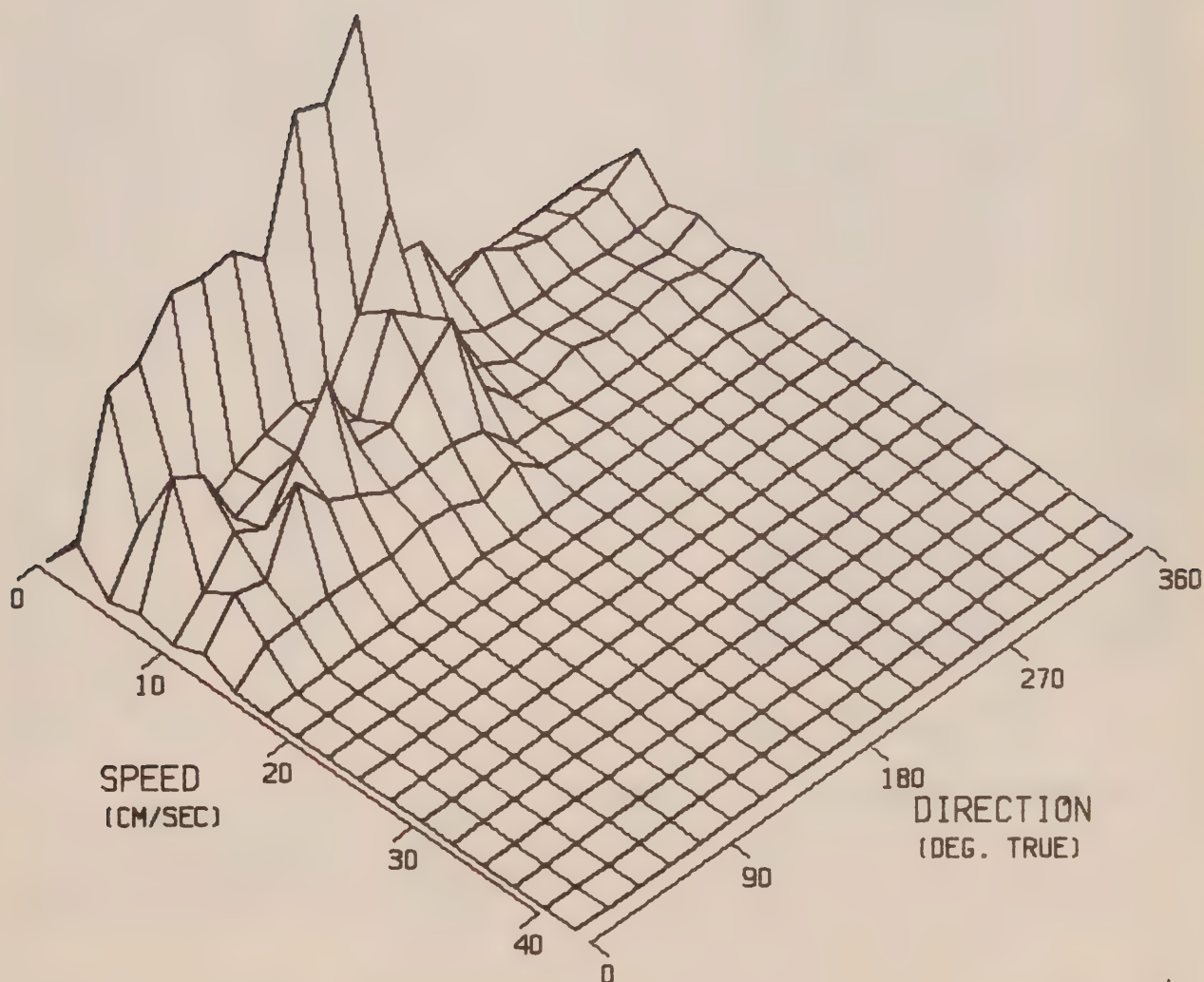
+

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 27/ 6/73

NO. OF SAMPLES = 3000



+



STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 27/ 6/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	017	006	009	003									35
15- 29	075	072	035	026									208
30- 44	065	061	051	018									195
45- 59	082	023	038	039									182
60- 74	074	030	050	029									183
75- 89	085	034	063	031									213
90-104	083	034	078	026									221
105-119	078	041	069	015									203
120-134	092	041	036	024	001								194
135-149	111	029	042	019	001								202
150-164	118	076	071	009									274
165-179	139	096	075	030									340
180-194	101	082	045	008									236
195-209	034	020	020	003									77
210-224	043	020	005	003									71
225-239	017	009	002	002									30
240-254	013	004	004										21
255-269	019	003	005	001									28
270-284	013	001	003										17
285-299	005	001	002	001									9
300-314	006	001	003	002									12
315-329	005	003	007	002									17
330-344	009		001	003									13
345-359	008	003	004	004									19
	1292		718		2		0		0		0		3000
		690		298		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M START DATE 27/06/73

MEDIAN (MM/S)	FREQINCY NO.	PCT	90	180	270	360	450
2	0	0	.	.	.	.	.
6	0	0					
10	0	0					
14	293	10	*****				
18	242	8	*****				
22	240	8	*****				
26	217	7	*****				
30	189	6	*****				
34	111	4	*****				
38	103	3	*****				
42	80	3	*****				
46	65	2	*****				
50	48	2	*****				
54	47	2	*****				
58	60	2	*****				
62	73	2	*****				
66	73	2	*****				
70	54	2	*****				
74	87	3	*****				
78	0	0					
82	67	2	*****				
86	70	2	*****				
90	71	2	*****				
94	60	2	*****				
98	82	3	*****				
102	78	3	*****				
106	70	2	*****				
110	88	3	*****				
114	55	2	*****				
118	77	3	*****				
122	45	2	*****				
126	34	1	****				
130	39	1	****				
134	47	2	*****				
138	44	1	*****				
142	28	1	***				
146	22	1	**				
150	24	1	***				
154	9	0	*				
158	6	0	*				

NO. OF SAMPLES OVER 160 = 2  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 150M START DATE 27/06/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	23	1	*****				
15	33	1	*****				
25	200	7	*****				
35	129	4	*****				
45	124	4	*****				
55	124	4	*****				
65	129	4	*****				
75	122	4	*****				
85	146	5	*****				
95	148	5	*****				
105	147	5	*****				
115	128	4	*****				
125	113	4	*****				
135	162	5	*****				
145	125	4	*****				
155	174	6	*****				
165	189	6	*****				
175	252	8	*****				
185	186	6	*****				
195	70	2	*****				
205	47	2	*****				
215	45	2	*****				
225	37	1	*****				
235	12	0	**				
245	14	0	***				
255	21	1	****				
265	16	1	***				
275	8	0	**				
285	9	0	**				
295	6	0	*				
305	9	0	**				
315	12	0	**				
325	8	0	**				
335	8	0	**				
345	7	0	*				
355	17	1	***				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5S DEPTH 150M START DATE 27/06/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	180 .	360 .	540 .	720 .	900 .
8.11	0	0					
8.13	0	0					
8.15	2	0					
8.17	155	5	*****				
8.19	786	26	*****				
8.21	1091	36	*****				
8.23	703	23	*****				
8.25	0	0					
8.27	257	9	*****				
8.29	6	0					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 150M START DATE 27/06/73

MEDIAN (PPT)	FREQUENCY NO. PCT .	190 .	380 .	570 .	760 .	950 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	30 1					
30.01	390 13					
30.03	1018 34					
30.05	792 26					
30.07	382 13					
30.09	315 11					
30.11	73 2					
30.13	0 0					
30.15	0 0					
30.17	0 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

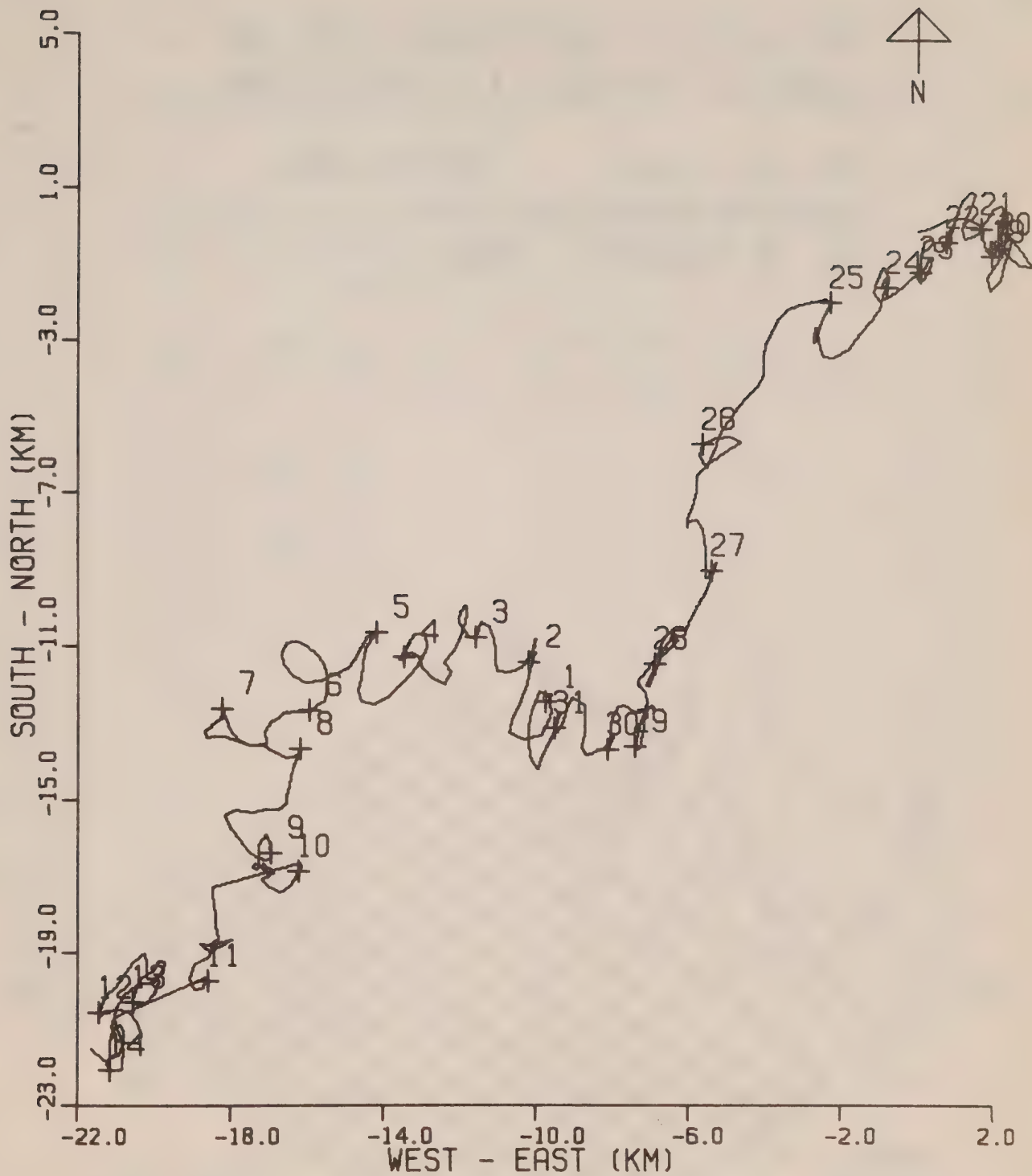
NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-55

DEPTH 150 M.

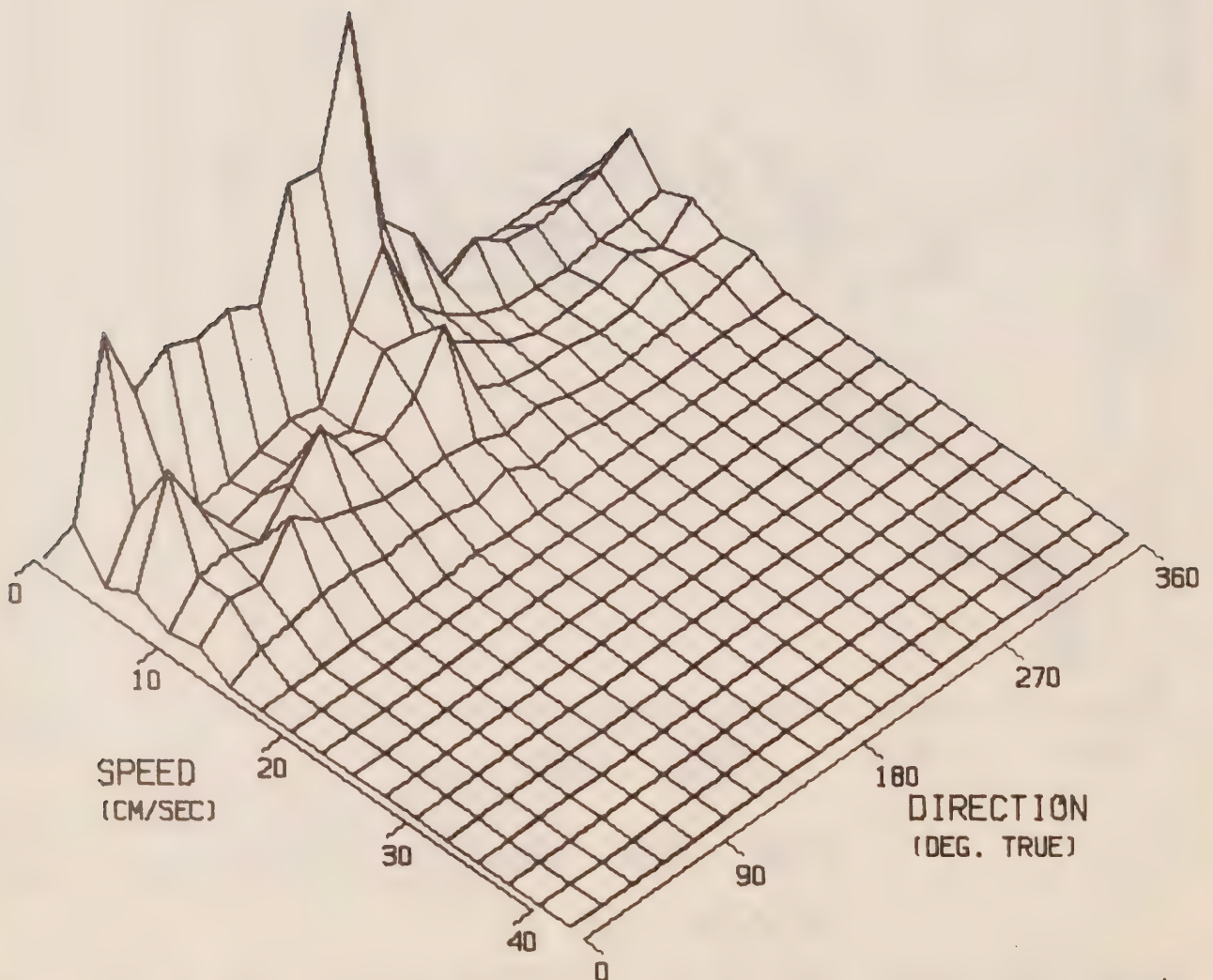
STARTING DATE: 18/ 7/73    ENDING DATE: 14/ 8/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5      DEPTH 150M

STARTING DATE: 18/ 7/73

NO. OF SAMPLES = 3934



STN. NO. HS-5N

DEPTH 150M.

STARTING DATE: 18/ 7/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	092	050	056	007									205
15- 29	217	123	080	021									441
30- 44	066	038	020	011									135
45- 59	038	020	016	005									79
60- 74	036	017	020	009									82
75- 89	020	009	015	008	001								53
90-104	024	022	029	004									79
105-119	021	017	036	002									76
120-134	023	017	034	001									75
135-149	038	017	026	003									84
150-164	042	025	033	003									103
165-179	101	069	063	008									241
180-194	203	133	089	003									428
195-209	131	111	112	012									366
210-224	096	078	091	040									305
225-239	095	038	076	019									228
240-254	083	029	040	026									178
255-269	077	016	039	015									147
270-284	045	018	026	010			001						100
285-299	026	022	018	005									71
300-314	025	014	031	008									78
315-329	042	030	033	010									115
330-344	056	024	037	006									123
345-359	055	028	046	006									135
	1652	1066		1	0	0	0	0	0	0			3927
	965	242		0	1	0	0	0	0	0			

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 7

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 18/07/73

MEDIAN (MM/S)	FREQUENCY NO. PCT .	100 .	200 .	300 .	400 .	500 .
2	0 0					
6	0 0					
10	0 0					
14	385 10	*****				
18	332 8	*****				
22	283 7	*****				
26	287 7	*****				
30	210 5	*****				
34	155 4	*****				
38	121 3	*****				
42	103 3	*****				
46	80 2	*****				
50	104 3	*****				
54	77 2	*****				
58	80 2	*****				
62	92 2	*****				
66	89 2	*****				
70	94 2	*****				
74	125 3	*****				
78	0 0					
82	91 2	*****				
86	114 3	*****				
90	106 3	*****				
94	101 3	*****				
98	110 3	*****				
102	134 3	*****				
106	107 3	*****				
110	104 3	*****				
114	107 3	*****				
118	92 2	*****				
122	69 2	*****				
126	53 1	*****				
130	38 1	****				
134	31 1	***				
138	19 0	**				
142	11 0	*				
146	8 0	*				
150	10 0	*				
154	3 0					
158	0 0					

NO. OF SAMPLES OVER 160 = 8  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3933  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 150M START DATE 18/07/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	80	160	240	320	400
5	136	3	*****				
15	168	4	*****				
25	361	9	*****				
35	88	2	*****				
45	59	2	*****				
55	54	1	*****				
65	60	2	*****				
75	36	1	*****				
85	40	1	*****				
95	51	1	*****				
105	51	1	*****				
115	53	1	*****				
125	42	1	*****				
135	61	2	*****				
145	54	1	*****				
155	62	2	*****				
165	99	3	*****				
175	201	5	*****				
185	294	7	*****				
195	255	6	*****				
205	243	6	*****				
215	197	5	*****				
225	183	5	*****				
235	141	4	*****				
245	126	3	*****				
255	112	3	*****				
265	96	2	*****				
275	69	2	*****				
285	46	1	*****				
295	51	1	*****				
305	45	1	*****				
315	62	2	*****				
325	89	2	*****				
335	75	2	*****				
345	85	2	*****				
355	88	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3933  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-5S DEPTH 150M START DATE 18/07/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	190 .	380 .	570 .	760 .	950 .
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	128	3					
8.19	1229	31					
8.21	1496	38					
8.23	742	19					
8.25	0	0					
8.27	312	8					
8.29	26	1					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 3933

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 150M START DATE 18/07/73

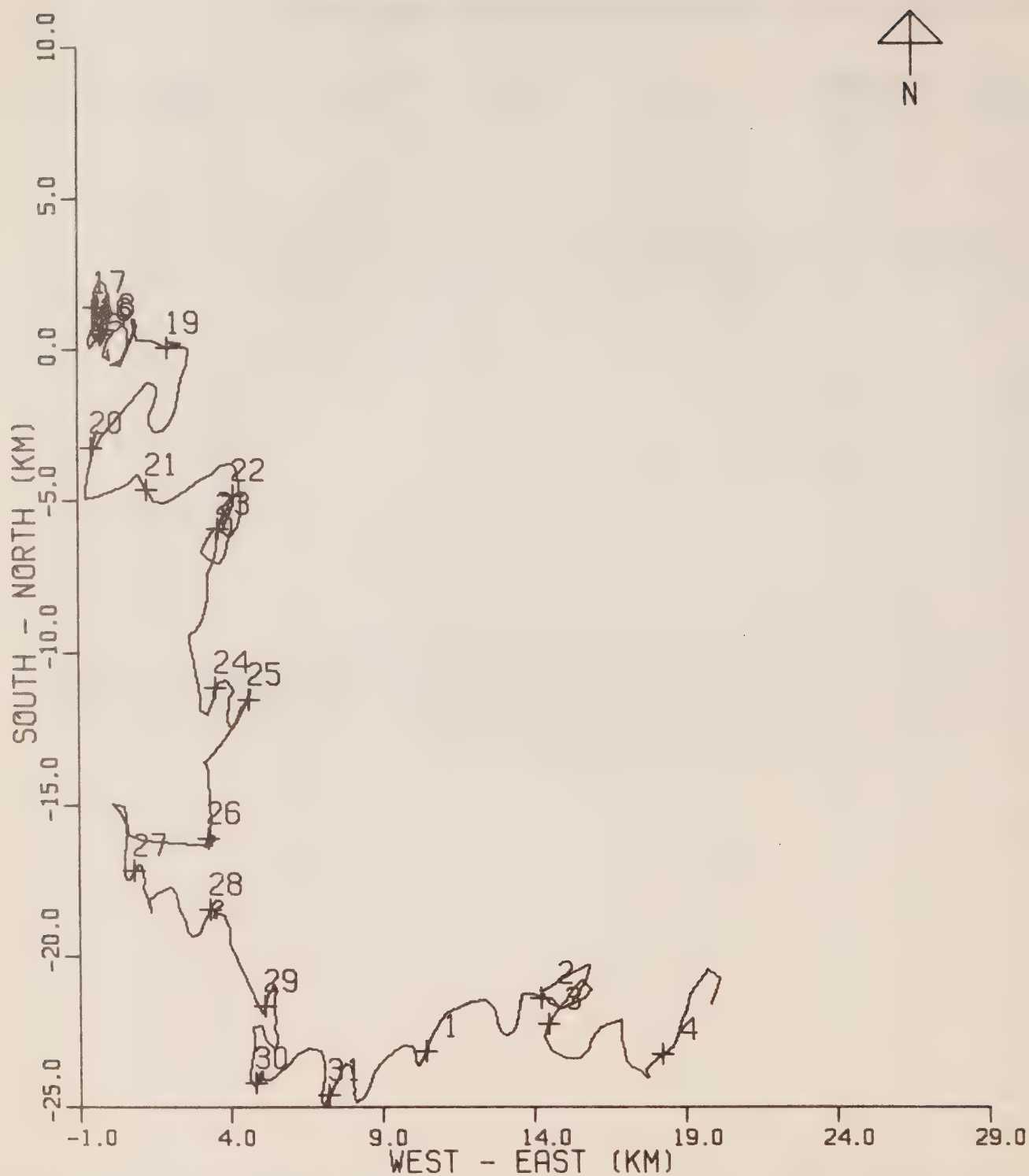
MEDIAN (PPT)	FREQUENCY NO.	PCT .	140	280	420	560	700
29.61	0	0	.	.	.	.	.
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	0	0					
29.97	20	1	*				
29.99	56	1	****				
30.01	450	11	*****				
30.03	1472	37	*****				
30.05	1235	31	*****				
30.07	384	10	*****				
30.09	292	7	*****				
30.11	24	1	**				
30.13	0	0					
30.15	0	0					
30.17	0	0					
30.19	0	0					
30.21	0	0					
30.23	0	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 3933

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

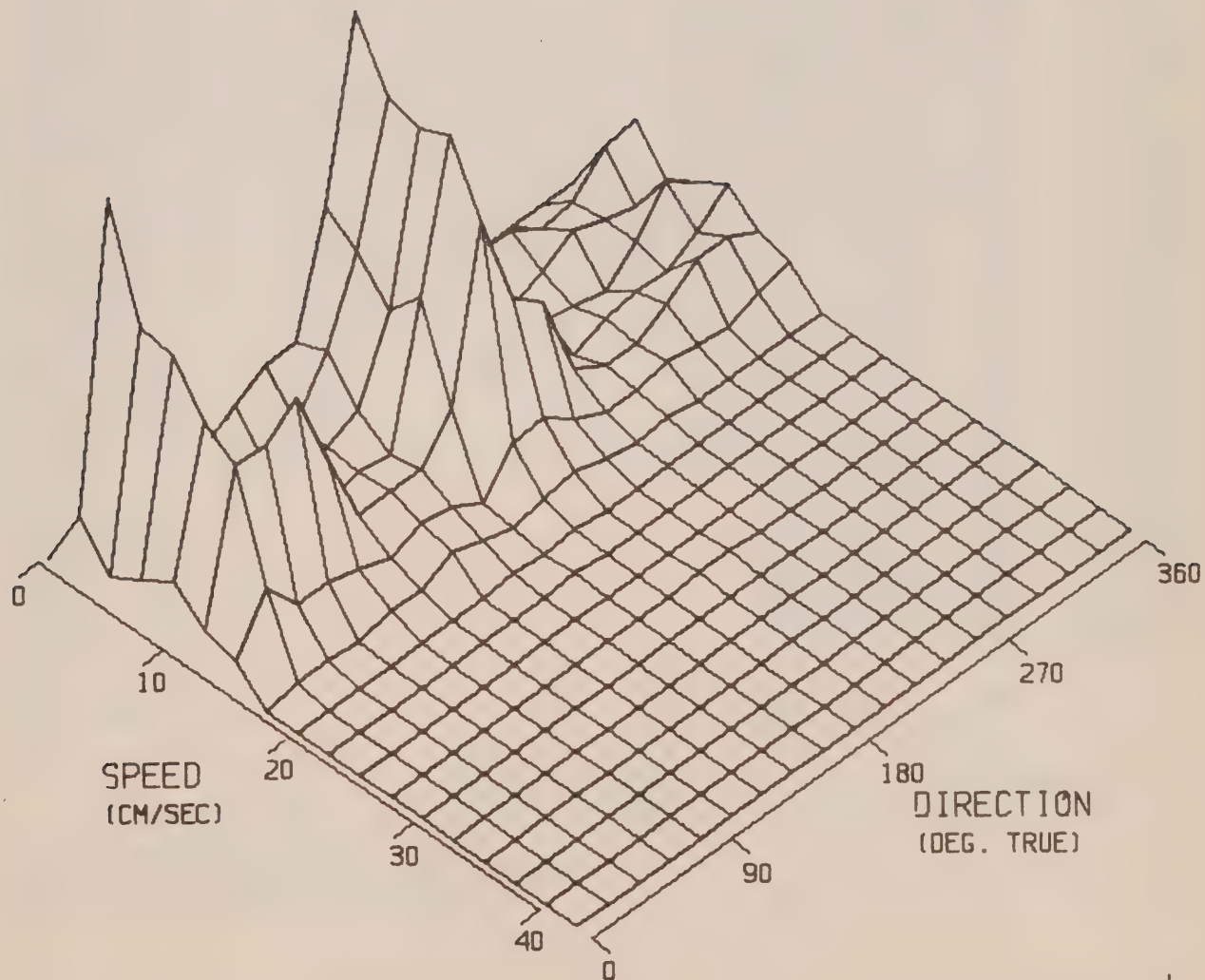
STARTING DATE: 15/ 8/73    ENDING DATE: 4/ 9/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 15/ 8/73

NO. OF SAMPLES = 2873



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 15/ 8/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

DIR	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	027	020	026	012									85
15- 29	108	131	106	065	001								411
30- 44	045	033	027	051	003								159
45- 59	020	023	036	041	001								121
60- 74	016	010	049	040									115
75- 89	011	011	020	028	004								74
90-104	020	013	015	012	002								62
105-119	018	012	018	017	006								71
120-134	017	017	021	011	004								70
135-149	024	036	018	016	006								100
150-164	037	062	045	010		001							155
165-179	095	111	140	041	004								391
180-194	077	095	109	043	004	001							329
195-209	038	026	057	038	004			001					164
210-224	040	014	039	029	002			001					125
225-239	034	024	021	015	001								95
240-254	013	012	010	009	002								46
255-269	010	004	004	003	001								22
270-284	012	005	005	005									27
285-299	006	013	008	009									36
300-314	008	010	016	008									42
315-329	006	012	006	014									38
330-344	015	015	018	016									64
345-359	011	014	019	019									63
	708	833	45	0	0	0	0	0	0	0	0	0	2865
	723	552	2	2	0	0	0	0	0	0	0	0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 8



## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 15/08/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
3	0	0	.	.	.	.	.
9	0	0					
15	117	4	*****				
21	249	9	*****				
27	124	4	*****				
33	218	8	*****				
39	101	4	*****				
45	159	6	*****				
51	71	2	*****				
57	134	5	*****				
63	69	2	*****				
69	121	4	*****				
75	68	2	*****				
81	75	3	*****				
87	164	6	*****				
93	66	2	*****				
99	157	5	*****				
105	91	3	*****				
111	184	6	*****				
117	96	3	*****				
123	196	7	*****				
129	103	4	*****				
135	136	5	*****				
141	44	2	*****				
147	43	1	*****				
153	16	1	***				
159	14	0	***				
165	24	1	*****				
171	7	0	*				
177	9	0	**				
183	4	0	*				
189	1	0					
195	0	0					
201	0	0					
207	1	0					
213	0	0					
219	0	0					
225	0	0					
231	1	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 10  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2873  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 15/08/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	70	140	210	280	350
5	56	2	*****				
15	122	4	*****				
25	334	12	*****				
35	104	4	*****				
45	89	3	*****				
55	81	3	*****				
65	83	3	*****				
75	49	2	*****				
85	52	2	*****				
95	41	1	*****				
105	35	1	*****				
115	55	2	*****				
125	51	2	*****				
135	52	2	*****				
145	73	3	*****				
155	97	3	*****				
165	172	6	*****				
175	302	11	*****				
185	245	9	*****				
195	129	4	*****				
205	97	3	*****				
215	89	3	*****				
225	72	3	*****				
235	55	2	*****				
245	33	1	*****				
255	16	1	**				
265	19	1	***				
275	17	1	**				
285	26	1	****				
295	22	1	***				
305	23	1	***				
315	29	1	****				
325	29	1	****				
335	46	2	*****				
345	43	1	*****				
355	35	1	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2873  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 15/08/73

MEDIAN (DEG.C)	FREQ'NCY NO.	PCT .	190	380	570	760	950
8.11	0	0	.	.	.	.	.
8.13	0	0					
8.15	0	0					
8.17	6	0					
8.19	668	23	*****				
8.21	1367	48	*****				
8.23	656	23	*****				
8.25	0	0					
8.27	152	5	*****				
8.29	24	1	*				
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 2873

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-5S DEPTH 150M START DATE 15/08/73

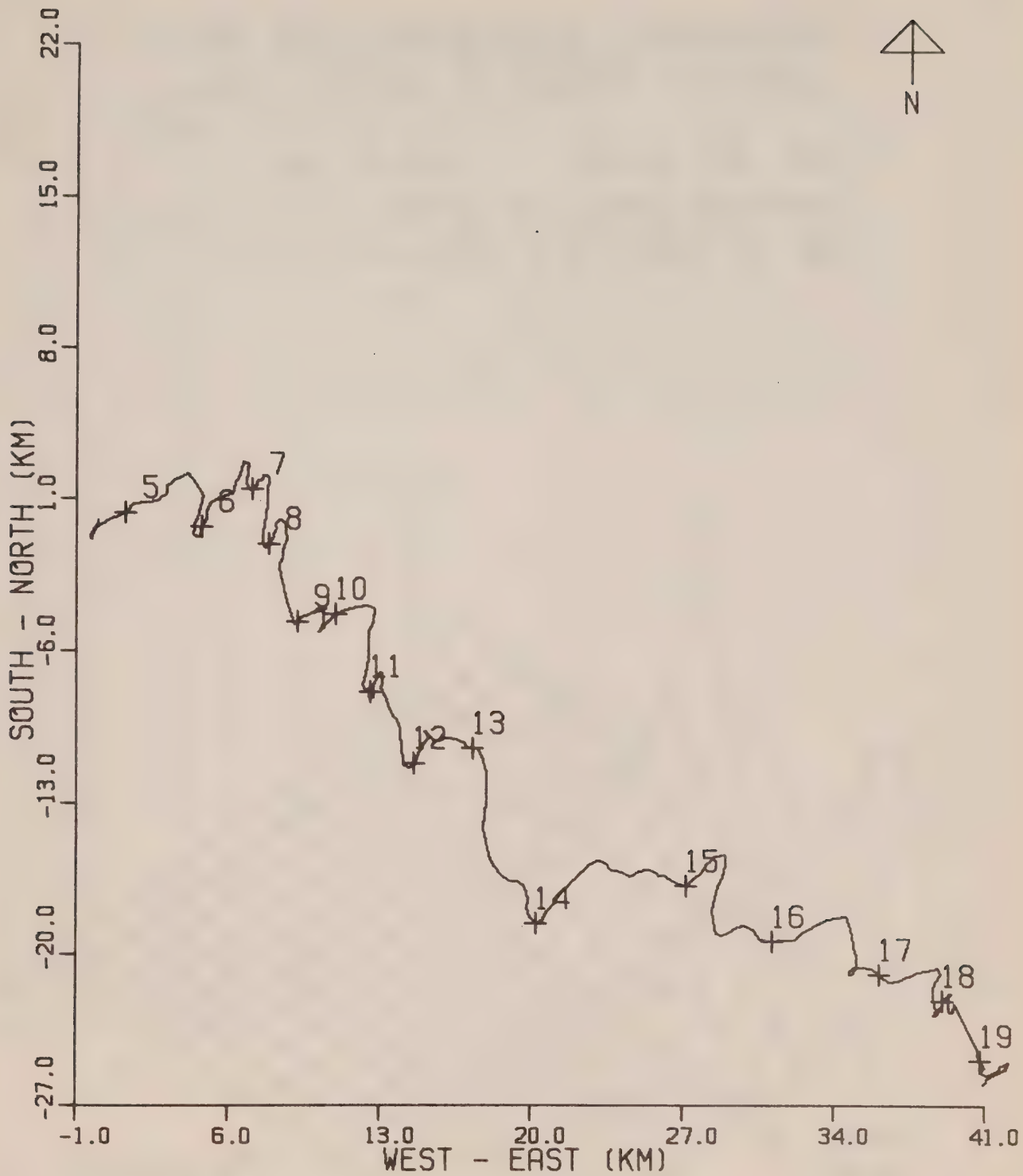
MEDIAN (PPT)	FREQUENCY		190	380	570	760	950
	NO.	PCT .	.	.	.	.	.
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	1	0					
29.97	86	3	*****				
29.99	71	2	*****				
30.01	628	22	*****				
30.03	1366	48	*****				
30.05	606	21	*****				
30.07	87	3	*****				
30.09	28	1	*				
30.11	0	0					
30.13	0	0					
30.15	0	0					
30.17	0	0					
30.19	0	0					
30.21	0	0					
30.23	0	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2873

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 4/ 9/73    ENDING DATE: 19/ 9/73

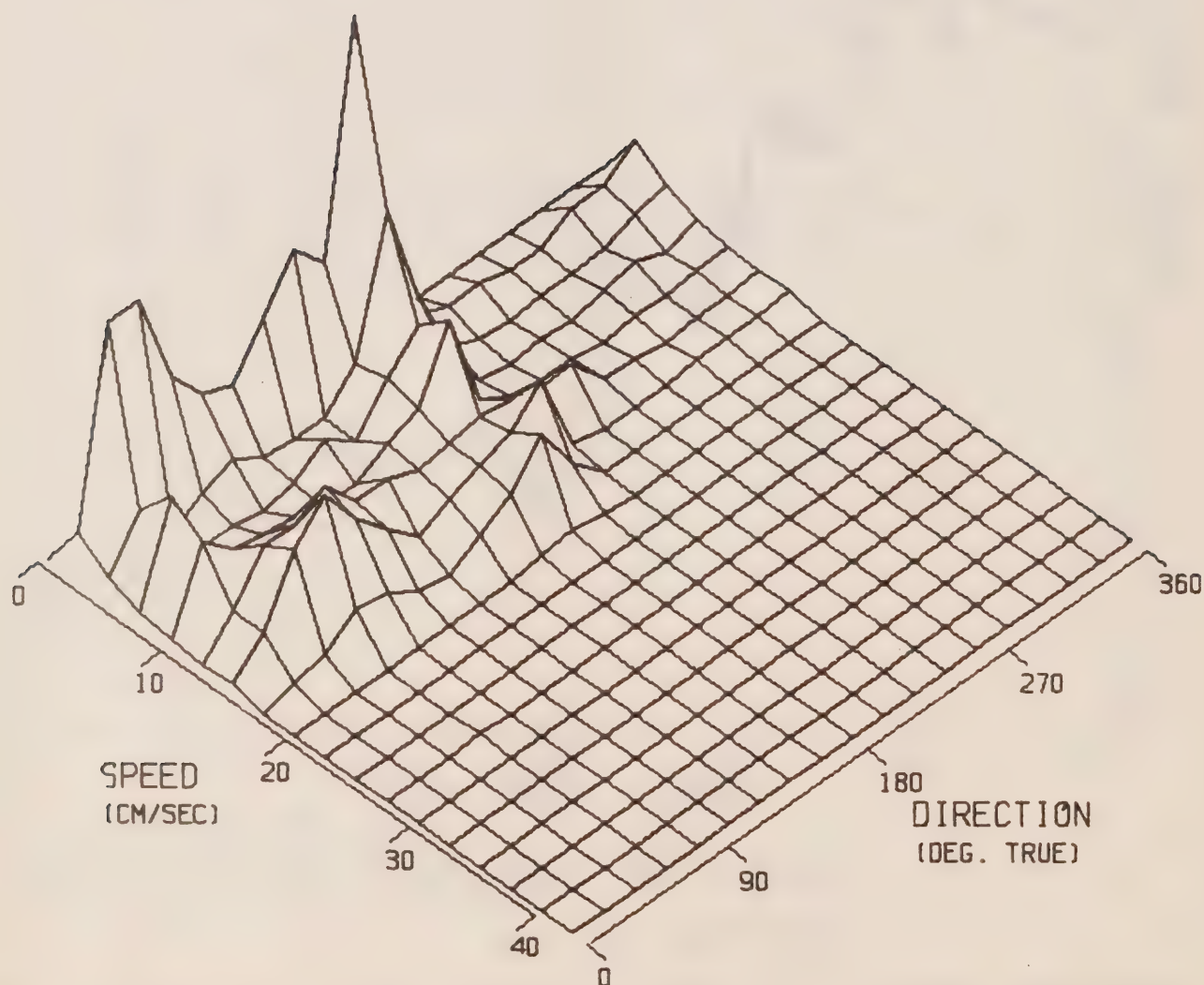


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 4/ 9/73

NO. OF SAMPLES = 2161



STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 4/ 9/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	025	008	009	004									46
15- 29	078	050	043	022	003								196
30- 44	067	017	023	047	002								156
45- 59	057	015	018	053	010						001		154
60- 74	036	021	025	057	011	001							151
75- 89	026	018	022	045	011								122
90-104	023	018	016	029	003								89
105-119	030	014	020	017	003								84
120-134	048	023	025	022	004								122
135-149	053	018	022	014	007								114
150-164	047	027	028	021	015								138
165-179	060	057	058	020	020								215
180-194	108	074	053	043	024								302
195-209	037	026	009	031	009								112
210-224	008	009	007	013									37
225-239	008	001	002	010									21
240-254		001	005	010									16
255-269	006	001	003										10
270-284	001	001		002									4
285-299	002	001											3
300-314	004	005	002	003		001							15
315-329	005	003	003	001									12
330-344	007	008	002	003									20
345-359	009	007		002									18
	745		395		122		2		0		0		2157
		423		469		0		0		0		1	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 4

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 150M START DATE 04/09/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT .	50	100	150	200	250
3	0	0	.	.	.	.	.
9	0	0					
15	134	6	*****				
21	252	12	*****				
27	116	5	*****				
33	243	11	*****				
39	84	4	*****				
45	102	5	*****				
51	37	2	*****				
57	54	2	*****				
63	32	1	*****				
69	76	4	*****				
75	38	2	*****				
81	33	2	*****				
87	89	4	*****				
93	31	1	*****				
99	83	4	*****				
105	43	2	*****				
111	69	3	*****				
117	47	2	*****				
123	90	4	*****				
129	61	3	*****				
135	97	4	*****				
141	49	2	*****				
147	100	5	*****				
153	40	2	*****				
159	32	1	*****				
165	58	3	*****				
171	11	1	**				
177	24	1	*****				
183	9	0	**				
189	16	1	***				
195	3	0	*				
201	1	0					
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 7  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2161  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 04/09/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	30	1	*****				
15	41	2	*****				
25	182	8	*****				
35	100	5	*****				
45	109	5	*****				
55	98	5	*****				
65	101	5	*****				
75	95	4	*****				
85	76	4	*****				
95	55	3	*****				
105	65	3	*****				
115	60	3	*****				
125	72	3	*****				
135	77	4	*****				
145	81	4	*****				
155	85	4	*****				
165	111	5	*****				
175	178	8	*****				
185	210	10	*****				
195	124	6	*****				
205	59	3	*****				
215	28	1	*****				
225	15	1	***				
235	13	1	***				
245	12	1	**				
255	9	0	**				
265	3	0	*				
275	4	0	*				
285	1	0					
295	2	0					
305	8	0	**				
315	11	1	**				
325	11	1	**				
335	13	1	***				
345	10	0	**				
355	12	1	**				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2161  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 04/09/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT	180	360	540	720	900
8.11	0	0	.	.	.	.	.
8.13	0	0					
8.15	0	0					
8.17	40	2					
8.19	668	31					
8.21	1288	60					
8.23	165	8					
8.25	0	0					
8.27	0	0					
8.29	0	0					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 2161

SAMPLE INTERVAL = 10 MINUTES

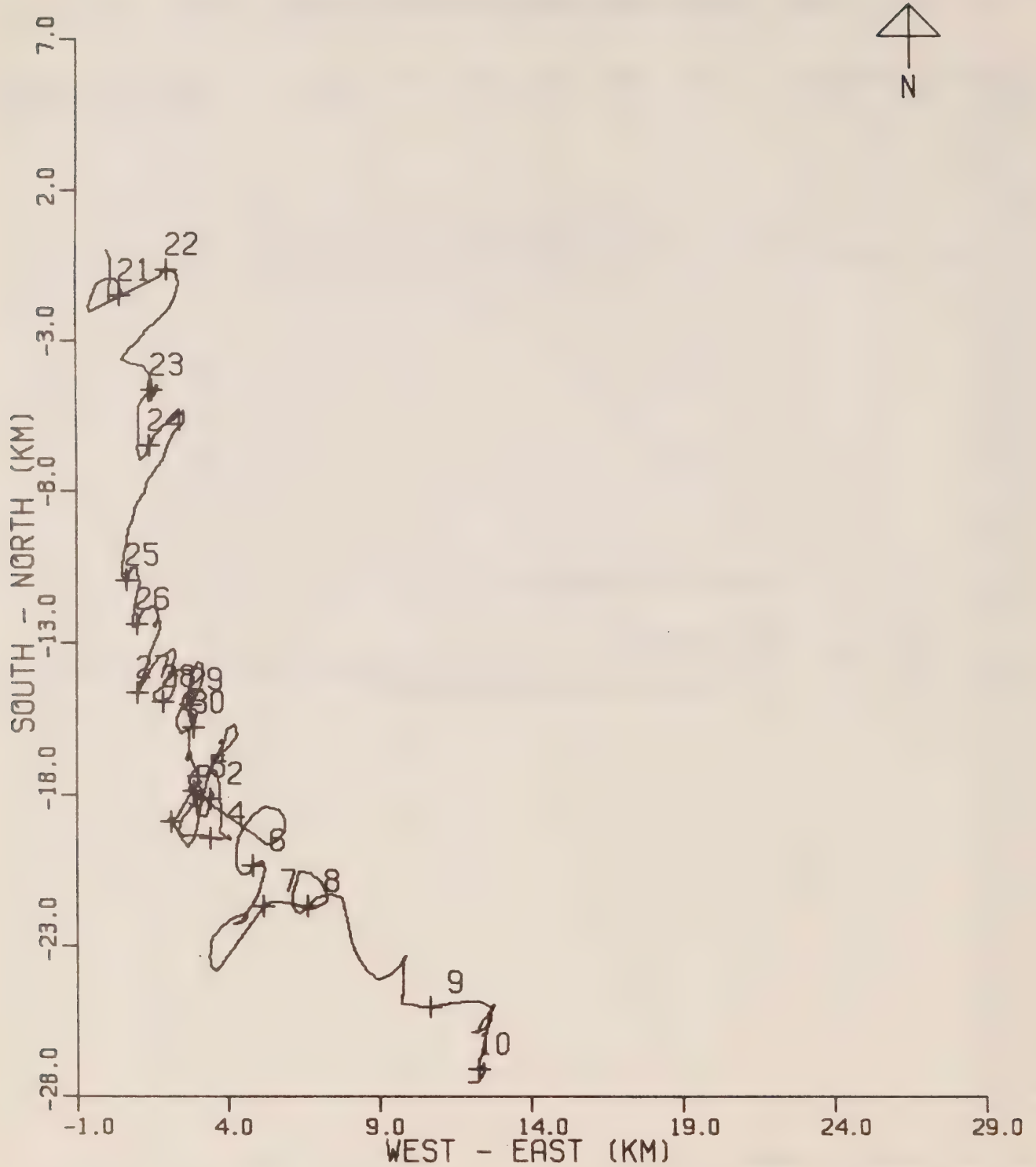


## HISTOGRAM OF SALINITY

HOWE SOUND HS=55 DEPTH 150M START DATE 04/09/73

MEDIAN (PPT)	FREQUENCY NO.	PCT .	140 .	280 .	420 .	560 .	700 .
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	10	0					*
29.97	278	13					*****
29.99	37	2					***
30.01	165	8					*****
30.03	1278	59					*****
30.05	390	18					*****
30.07	3	0					
30.09	0	0					
30.11	0	0					
30.13	0	0					
30.15	0	0					
30.17	0	0					
30.19	0	0					
30.21	0	0					
30.23	0	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0  
 NO. OF SAMPLES UNDER 29.60 = 0  
 TOTAL NO. OF OBSERVATIONS = 2161  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

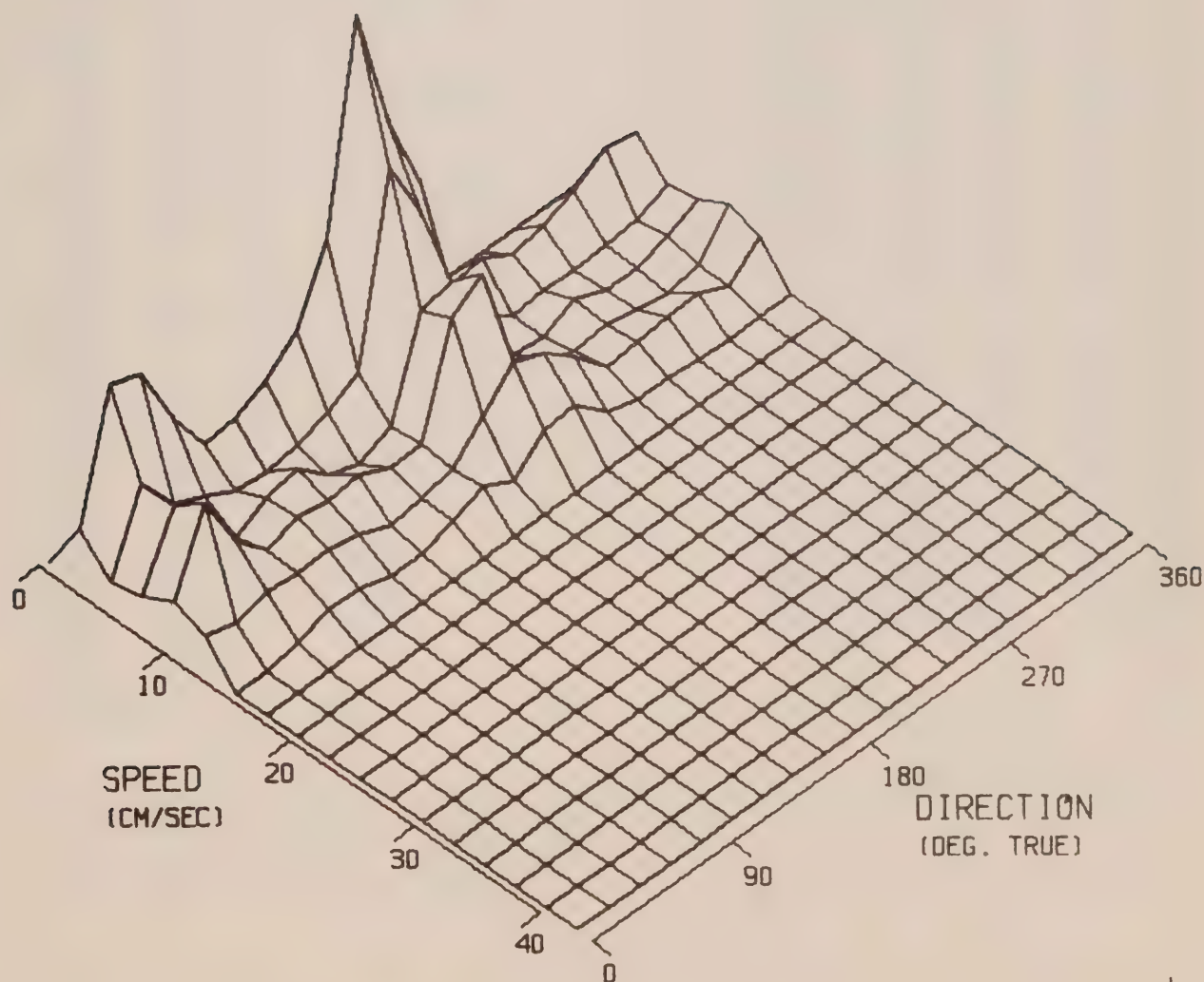
STARTING DATE: 20/ 9/73    ENDING DATE: 10/10/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 20/ 9/73

NO. OF SAMPLES = 2881



STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 20/ 9/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	028	023	047	002									100
15- 29	079	075	078	006									238
30- 44	072	036	049	008									165
45- 59	066	031	017	013									127
60- 74	025	020	026	016									87
75- 89	022	021	032	010									85
90-104	025	028	030	006									89
105-119	022	015	028	007									72
120-134	038	016	012	005									71
135-149	038	018	015	016									87
150-164	061	023	018	016									118
165-179	095	070	048	025									238
180-194	188	169	092	026									475
195-209	082	099	087	037									305
210-224	071	048	051	039									209
225-239	027	015	017	032									91
240-254	017	010	008	014									49
255-269	013	002	006	009									30
270-284	009	006	014	006									35
285-299	012	006	011	006									35
300-314	009	002	005	008									24
315-329	020	005	009	005									39
330-344	032	007	008	001									48
345-359	014	016	021	003							001		55
	1065		729		0		0		0		0		2872
		761		316		0		0		0		1	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 9

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 20/09/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	60	120	180	240	300
2	0 0	.	.	.	.	.
6	0 0					
10	0 0					
14	310 11	*****				
18	188 7	*****				
22	163 6	*****				
26	139 5	*****				
30	147 5	*****				
34	118 4	*****				
38	108 4	*****				
42	114 4	*****				
46	87 3	*****				
50	69 2	*****				
54	73 3	*****				
58	63 2	*****				
62	75 3	*****				
66	55 2	*****				
70	54 2	*****				
74	63 2	*****				
78	0 0					
82	64 2	*****				
86	64 2	*****				
90	85 3	*****				
94	74 3	*****				
98	78 3	*****				
102	82 3	*****				
106	76 3	*****				
110	71 2	*****				
114	65 2	*****				
118	70 2	*****				
122	58 2	*****				
126	66 2	*****				
130	37 1	*****				
134	35 1	*****				
138	35 1	*****				
142	34 1	*****				
146	22 1	****				
150	14 0	**				
154	12 0	**				
158	3 0	*				

NO. OF SAMPLES OVER 160 = 10  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2881  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 20/09/73

MEDIAN (DEG.T)	FREQ'NCY NO.	PCT	70	140	210	280	350
5	65	2	*****				
15	82	3	*****				
25	208	7	*****				
35	109	4	*****				
45	92	3	*****				
55	83	3	*****				
65	55	2	*****				
75	59	2	*****				
85	58	2	*****				
95	62	2	*****				
105	46	2	*****				
115	52	2	*****				
125	49	2	*****				
135	53	2	*****				
145	61	2	*****				
155	82	3	*****				
165	100	3	*****				
175	203	7	*****				
185	308	11	*****				
195	278	10	*****				
205	174	6	*****				
215	155	5	*****				
225	88	3	*****				
235	47	2	*****				
245	36	1	*****				
255	25	1	****				
265	18	1	***				
275	23	1	***				
285	25	1	****				
295	21	1	***				
305	18	1	***				
315	14	0	**				
325	30	1	****				
335	30	1	****				
345	31	1	****				
355	41	1	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2881  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 150M START DATE 20/09/73

MEDIAN (DEG.C)	FREQNCY NO.	PCT .	190 .	380 .	570 .	760 .	950 .
8.01	0	0					
8.03	0	0					
8.05	0	0					
8.07	0	0					
8.09	0	0					
8.11	0	0					
8.13	0	0					
8.15	0	0					
8.17	73	3	*****				
8.19	740	26	*****				
8.21	1557	54	*****				
8.23	500	17	*****				
8.25	0	0					
8.27	11	0	*				
8.29	0	0					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	0	0					
8.49	0	0					
8.51	0	0					
8.53	0	0					
8.55	0	0					
8.57	0	0					
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					

NO. OF SAMPLES OVER 8.80 = 0  
 NO. OF SAMPLES UNDER 8.00 = 0  
 TOTAL NO. OF OBSERVATIONS = 2881  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 20/09/73

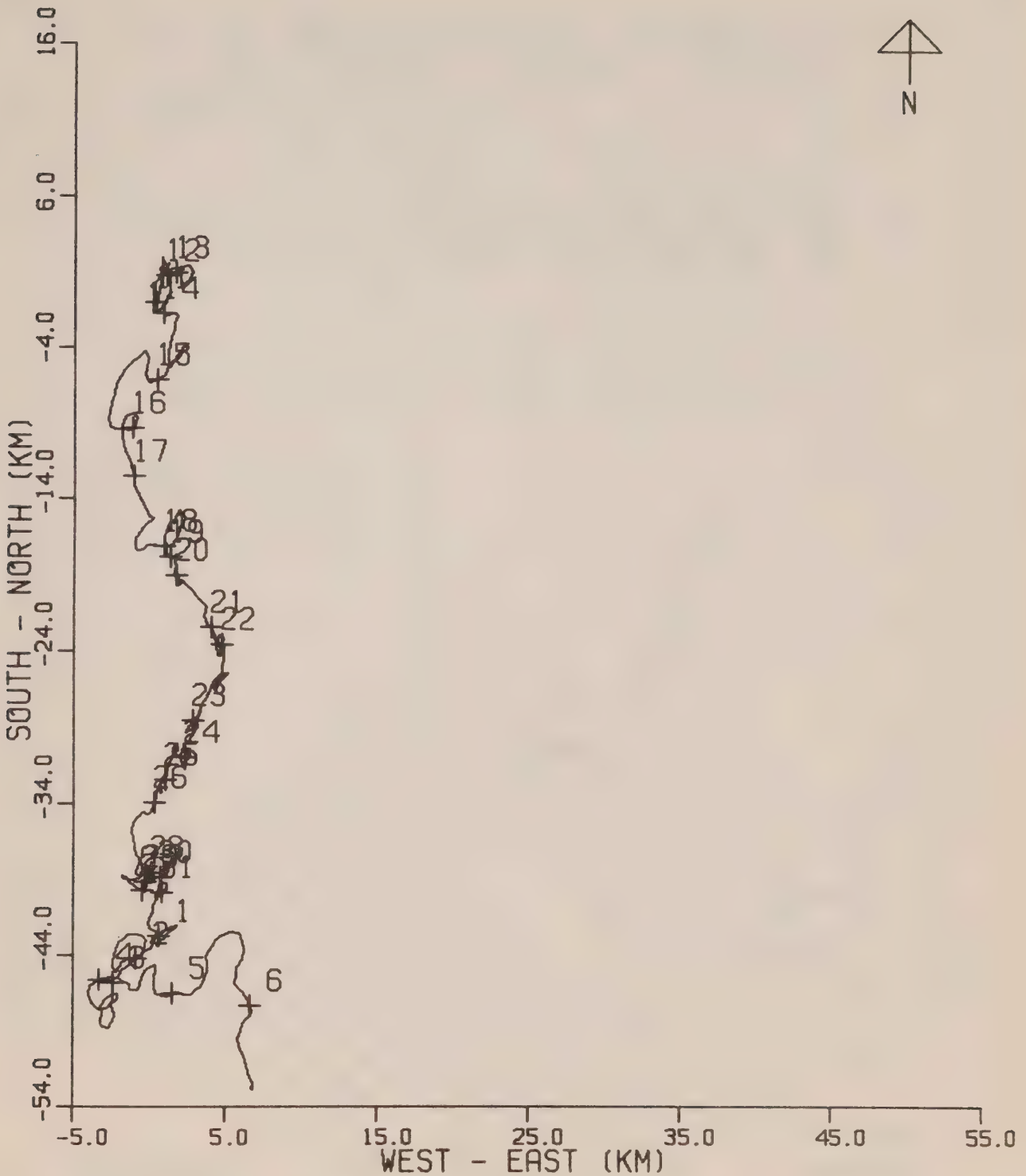
MEDIAN (PPT)	FREQUENCY NO. PCT .	140 .	280 .	420 .	560 .	700 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	29 1	**				
29.97	295 10	*****				
29.99	82 3	*****				
30.01	500 17	*****				
30.03	1528 53	*****				
30.05	445 15	*****				
30.07	2 0					
30.09	0 0					
30.11	0 0					
30.13	0 0					
30.15	0 0					
30.17	0 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2881

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

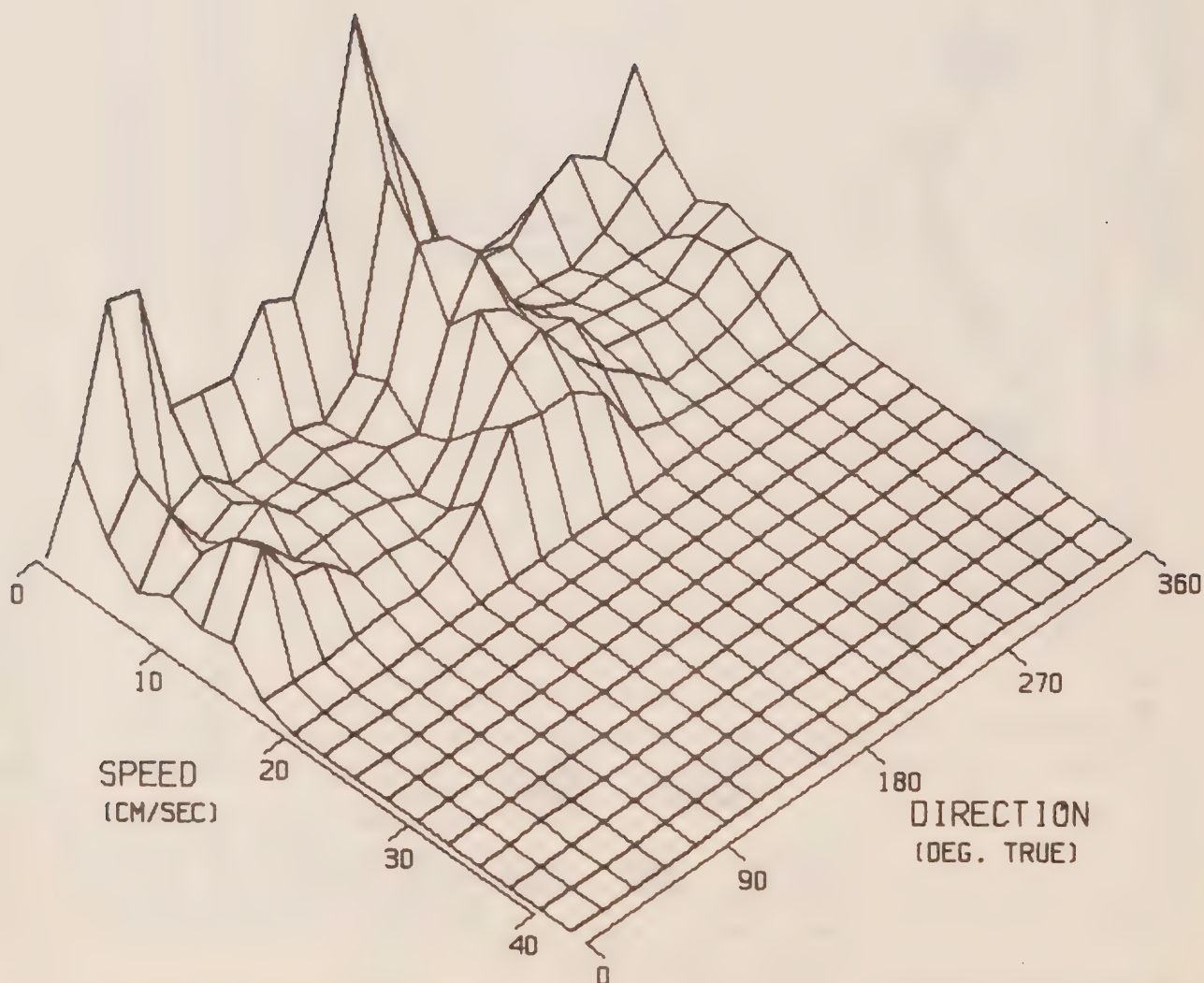
STARTING DATE: 10/10/73    ENDING DATE: 6/11/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 10/10/73

NO. OF SAMPLES = 3901





STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 10/10/73  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	050	043	031	032	002							001	159
15- 29	106	063	052	077	002								300
30- 44	097	026	034	055	004			001					217
45- 59	051	024	039	033	003								150
60- 74	031	033	040	027	004								135
75- 89	036	019	018	019	003								95
90-104	035	020	023	022	005								105
105-119	041	024	024	019	002								110
120-134	050	019	020	011	008								108
135-149	050	017	026	016	025								134
150-164	061	030	021	033	037								182
165-179	102	097	061	066	038								364
180-194	147	116	105	091	038								497
195-209	068	081	093	091	036								369
210-224	062	036	060	064	030								252
225-239	026	028	046	050	012								162
240-254	019	020	032	042	006								119
255-269	013	008	022	016	003								62
270-284	010	007	013	007	001					001			39
285-299	016	008	018	009	001								52
300-314	024	012	009	007									52
315-329	027	014	011	010	001								63
330-344	019	018	017	018									72
345-359	027	019	027	019	004								96
	1168		842		265	0		1		1			3894
	782		834		0	0		0		0		1	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 7

## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M START DATE 10/10/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	80	160	240	320	400
3	0 0	.	.	.	.	.
9	0 0					
15	244 6	*****				
21	383 10	*****				
27	209 5	*****				
33	332 9	*****				
39	97 2	*****				
45	165 4	*****				
51	74 2	*****				
57	141 4	*****				
63	68 2	*****				
69	145 4	*****				
75	92 2	*****				
81	87 2	*****				
87	158 4	*****				
93	76 2	*****				
99	186 5	*****				
105	95 2	*****				
111	157 4	*****				
117	83 2	*****				
123	168 4	*****				
129	85 2	*****				
135	195 5	*****				
141	70 2	*****				
147	169 4	*****				
153	80 2	*****				
159	67 2	*****				
165	128 3	*****				
171	55 1	*****				
177	72 2	*****				
183	5 0	*				
189	5 0	*				
195	0 0					
201	0 0					
207	0 0					
213	0 0					
219	0 0					
225	0 0					
231	0 0					
237	0 0					

NO. OF SAMPLES OVER 240 = 10  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3901  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 10/10/73

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	70	140	210	280	350
5	117	3	*****	.	.	.	.
15	130	3	*****				
25	228	6	*****				
35	153	4	*****				
45	105	3	*****				
55	104	3	*****				
65	92	2	*****				
75	79	2	*****				
85	57	1	*****				
95	69	2	*****				
105	67	2	*****				
115	80	2	*****				
125	82	2	*****				
135	73	2	*****				
145	88	2	*****				
155	123	3	*****				
165	166	4	*****				
175	300	8	*****				
185	313	8	*****				
195	308	8	*****				
205	211	5	*****				
215	164	4	*****				
225	149	4	*****				
235	100	3	*****				
245	75	2	*****				
255	56	1	*****				
265	40	1	*****				
275	26	1	*****				
285	34	1	*****				
295	32	1	*****				
305	35	1	*****				
315	31	1	*****				
325	51	1	*****				
335	44	1	*****				
345	62	2	*****				
355	57	1	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3901  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 10/10/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT.	190	380	570	760	950
8.12	0	0	.	.	.	.	.
8.16	23	1	*				
8.20	2243	57	*****				
8.24	674	17	*****				
8.28	213	5	*****				
8.32	187	5	*****				
8.36	88	2	*****				
8.40	16	0	*				
8.44	19	0	*				
8.48	17	0	*				
8.52	17	0	*				
8.56	5	0					
8.60	20	1	*				
8.64	76	2	****				
8.68	59	2	***				
8.72	34	1	**				
8.76	44	1	**				
8.80	35	1	**				
8.84	32	1	**				
8.88	21	1	*				
8.92	25	1	*				
8.96	7	0					
9.00	15	0	*				
9.04	3	0					
9.08	27	1	*				
9.12	1	0					
9.16	0	0					
9.20	0	0					
9.24	0	0					
9.28	0	0					
9.32	0	0					
9.36	0	0					
9.40	0	0					
9.44	0	0					
9.48	0	0					
9.52	0	0					
9.56	0	0					
9.60	0	0					
9.64	0	0					
9.68	0	0					

NO. OF SAMPLES OVER 9.70 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 3901

SAMPLE INTERVAL = 10 MINUTES

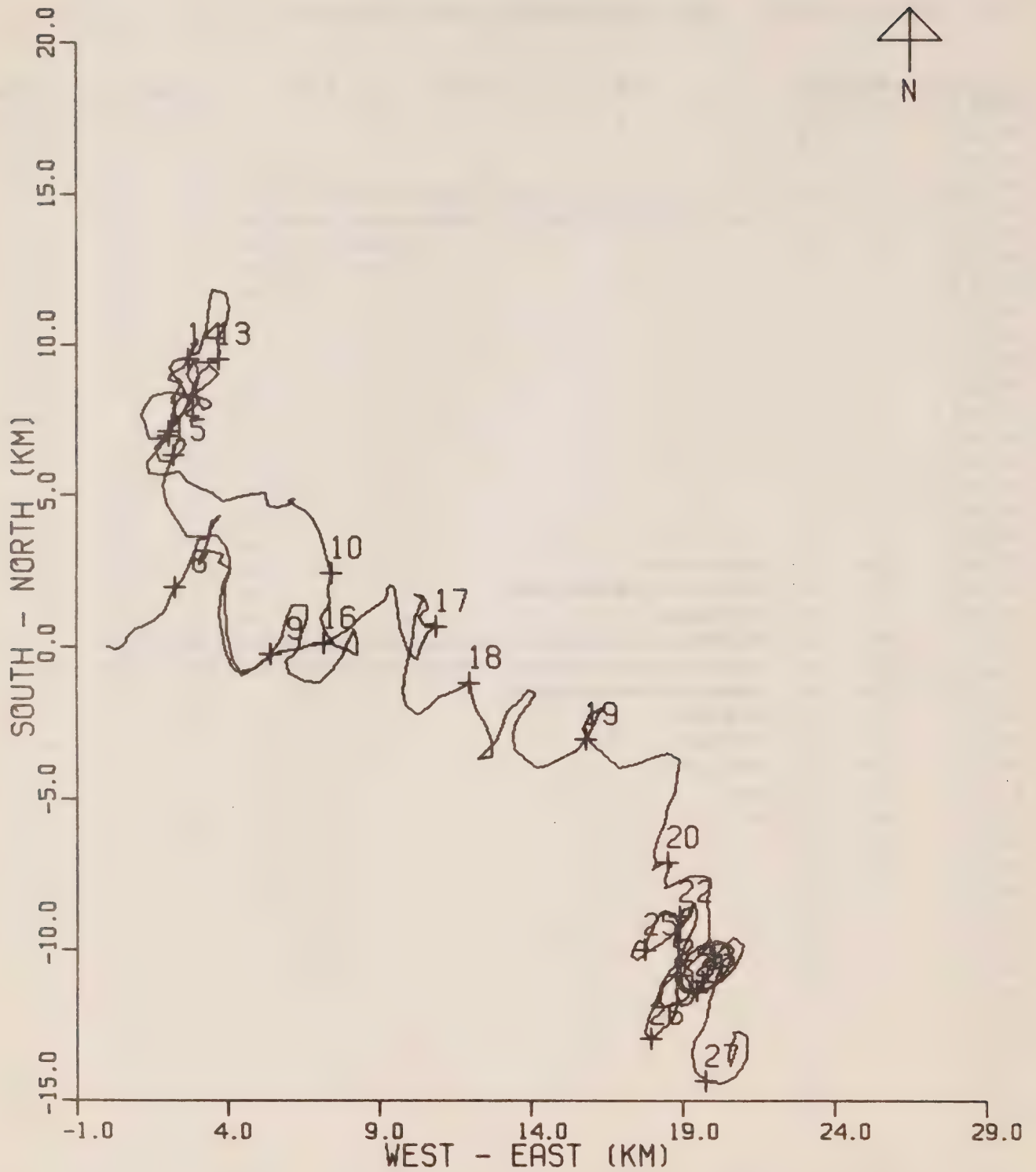
## HISTOGRAM OF SALINITY

HOWE SOUND HS-59 DEPTH 150M START DATE 10/10/73

MEDIAN (PPT)	FREQUENCY NO.	PCT .	190 .	380 .	570 .	760 .	950 .
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	156	4	*****				
29.97	350	9	*****				
29.99	136	3	*****				
30.01	781	20	*****				
30.03	1723	44	*****				
30.05	325	8	*****				
30.07	105	3	*****				
30.09	88	2	*****				
30.11	119	3	*****				
30.13	66	2	***				
30.15	28	1	*				
30.17	15	0	*				
30.19	9	0					
30.21	0	0					
30.23	0	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0  
 NO. OF SAMPLES UNDER 29.60 = 0  
 TOTAL NO. OF OBSERVATIONS = 3901  
 SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-55

DEPTH 150 M.

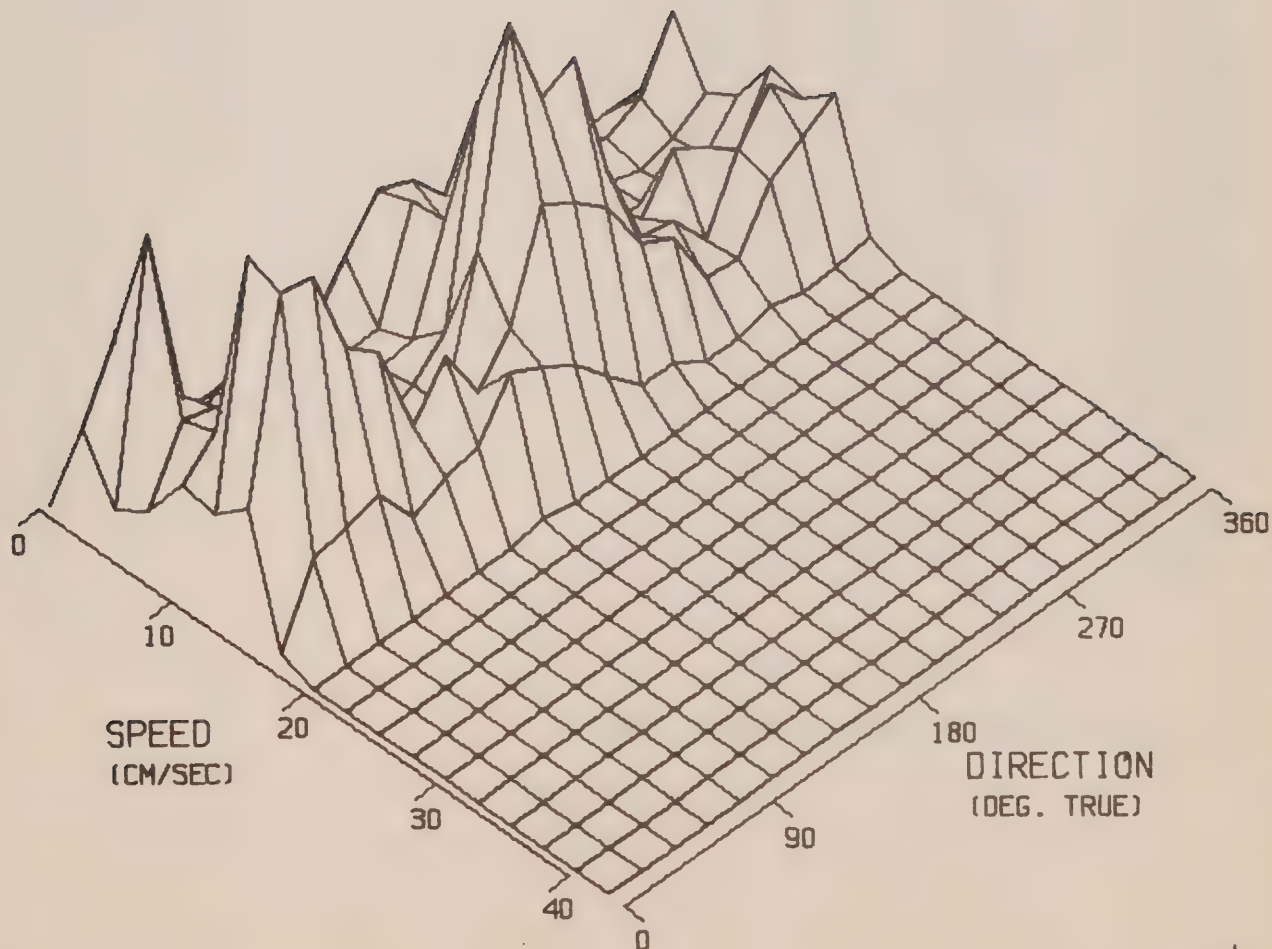
STARTING DATE: 7/11/73    ENDING DATE: 27/11/73

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 7/11/73

NO. OF SAMPLES = 2887



STN. NO. HS-55

DEPTH 150 M.

STARTING DATE: 7/11/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
DIR	039	079	119	159	199	239	279	319	359	399	439	479

0- 14	020	019	036	038	001							114
15- 29	032	077	052	113	019							293
30- 44	006	042	036	088	018							190
45- 59	002	021	054	073	020							170
60- 74		015	025	053	009							102
75- 89	010	022	020	049	012							113
90-104	010	013	007	033	011							74
105-119	009	011	020	031	012							83
120-134	005	013	012	025	017							72
135-149	007	010	016	024	028							85
150-164	011	009	025	033	023							101
165-179	024	034	068	069	018							213
180-194	026	038	081	091	010							246
195-209	018	025	065	071	013							192
210-224	016	025	052	064	006							163
225-239	024	019	041	069	002							155
240-254	020	009	028	033	004							94
255-269	009	005	017	031	001							63
270-284	010	007	013	022	001							53
285-299	007	005	025	006	002							45
300-314	008	008	018	018	001							53
315-329	001	005	018	027	001							52
330-344	004	005	020	043								72
345-359	016	007	025	037	004							69

295	774	233	0	0	0	0	0	2887
444	1141	0	0	0	0	0		

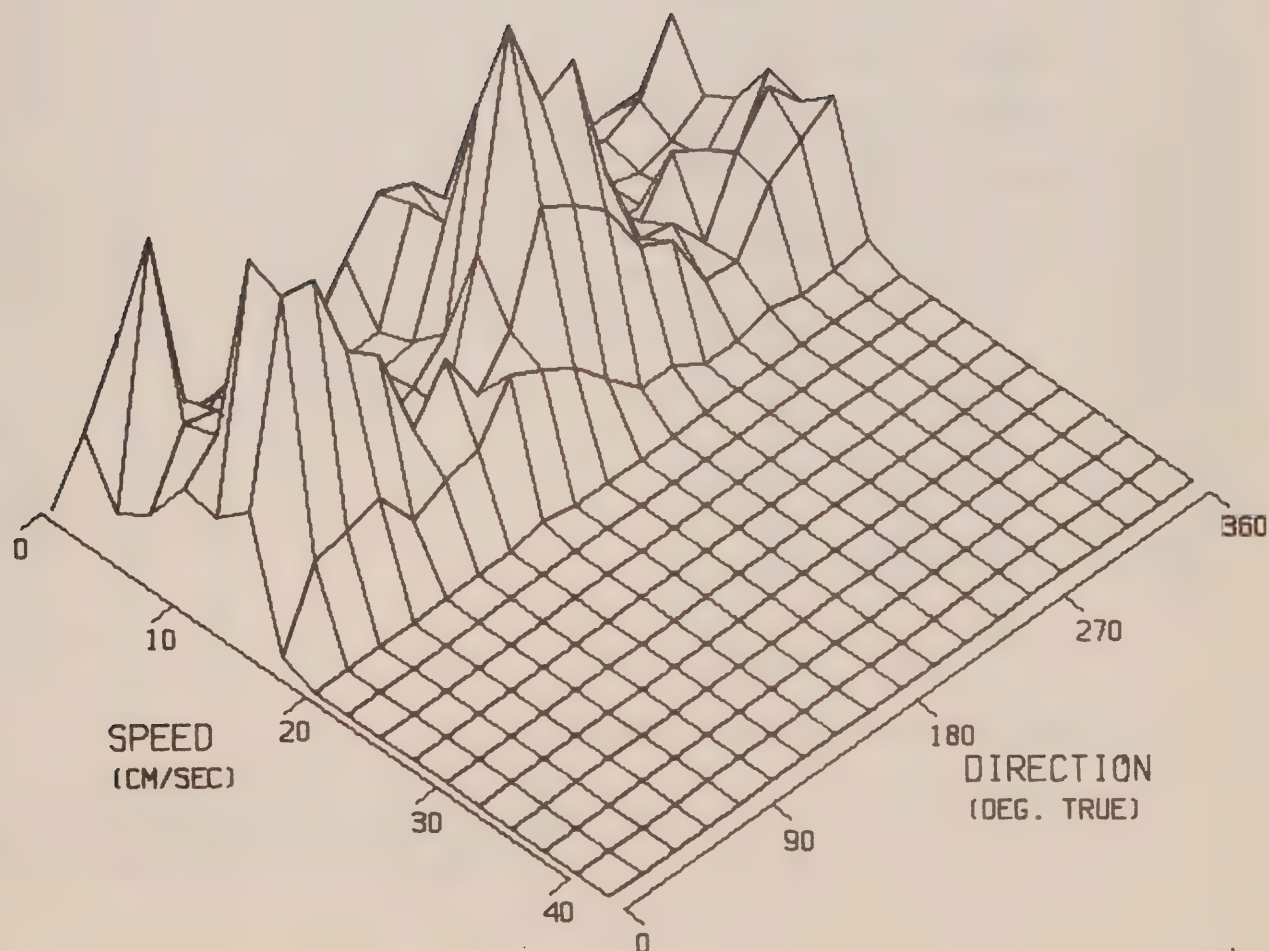
NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 7/11/73

NO. OF SAMPLES = 2887



STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 7/11/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	020	019	036	038	001								114
15- 29	032	077	052	113	019								293
30- 44	006	042	036	088	018								190
45- 59	002	021	054	073	020								170
60- 74		015	025	053	009								102
75- 89	010	022	020	049	012								113
90-104	010	013	007	033	011								74
105-119	009	011	020	031	012								83
120-134	005	013	012	025	017								72
135-149	007	010	016	024	028								85
150-164	011	009	025	033	023								101
165-179	024	034	068	069	018								213
180-194	026	038	081	091	010								246
195-209	018	025	065	071	013								192
210-224	016	025	052	064	006								163
225-239	024	019	041	069	002								155
240-254	020	009	028	033	004								94
255-269	009	005	017	031	001								63
270-284	010	007	013	022	001								53
285-299	007	005	025	006	002								45
300-314	008	008	018	018	001								53
315-329	001	005	018	027	001								52
330-344	004	005	020	043									72
345-359	016	007	025	037	004								69
	295	774	233		0	0	0	0	0	0	0	2887	
	444	1141		0	0	0	0	0	0	0	0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0



## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M START DATE 07/11/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
3	0	0	.	.	.	.	.
9	0	0					
15	48	2	*****				
21	91	3	*****				
27	51	2	*****				
33	105	4	*****				
39	59	2	*****				
45	98	3	*****				
51	42	1	*****				
57	86	3	*****				
63	47	2	*****				
69	75	3	*****				
75	37	1	*****				
81	52	2	*****				
87	100	3	*****				
93	63	2	*****				
99	145	5	*****				
105	99	3	*****				
111	207	7	*****				
117	108	4	*****				
123	216	7	*****				
129	133	5	*****				
135	220	8	*****				
141	110	4	*****				
147	262	9	*****				
153	106	4	*****				
159	94	3	*****				
165	124	4	*****				
171	46	2	*****				
177	45	2	*****				
183	12	0	**				
189	6	0	*				
195	0	0					
201	0	0					
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2887  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-58 DEPTH 150M START DATE 07/11/73

EDIAN DEG.T)	FREQUENCY NO. PCT	50	100	150	200	250
5	77 3	*****	.	.	.	.
15	107 4	*****				
25	247 9	*****				
35	130 5	*****				
45	100 3	*****				
55	109 4	*****				
65	73 3	*****				
75	78 3	*****				
85	65 2	*****				
95	57 2	*****				
105	47 2	*****				
115	59 2	*****				
125	45 2	*****				
135	44 2	*****				
145	61 2	*****				
155	61 2	*****				
165	102 4	*****				
175	172 6	*****				
185	164 6	*****				
195	151 5	*****				
205	115 4	*****				
215	106 4	*****				
225	106 4	*****				
235	95 3	*****				
245	67 2	*****				
255	55 2	*****				
265	33 1	*****				
275	34 1	*****				
285	33 1	*****				
295	30 1	*****				
305	32 1	*****				
315	38 1	*****				
325	40 1	*****				
335	47 2	*****				
345	48 2	*****				
355	59 2	*****				
365	0 0					
375	0 0					
385	0 0					
395	0 0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2887  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 07/11/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	70	140	210	280	350
8.21	0	0	.	.	.	.	.
8.23	0	0					
8.25	0	0					
8.27	0	0					
8.29	143	5	*****				
8.31	140	5	*****				
8.33	53	2	*****				
8.35	74	3	*****				
8.37	235	8	*****				
8.39	282	10	*****				
8.41	0	0					
8.43	303	10	*****				
8.45	279	10	*****				
8.47	154	5	*****				
8.49	115	4	*****				
8.51	93	3	*****				
8.53	103	4	*****				
8.55	80	3	*****				
8.57	0	0					
8.59	119	4	*****				
8.61	75	3	*****				
8.63	65	2	*****				
8.65	91	3	*****				
8.67	132	5	*****				
8.69	68	2	*****				
8.71	36	1	*****				
8.73	0	0					
8.75	34	1	*****				
8.77	26	1	****				
8.79	22	1	***				
8.81	29	1	****				
8.83	26	1	****				
8.85	28	1	****				
8.87	22	1	***				
8.89	0	0					
8.91	32	1	*****				
8.93	12	0	**				
8.95	7	0	*				
8.97	9	0	*				
8.99	0	0					

NO. OF SAMPLES OVER 9.00 = 0  
 NO. OF SAMPLES UNDER 8.20 = 0  
 TOTAL NO. OF OBSERVATIONS = 2887  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 07/11/73

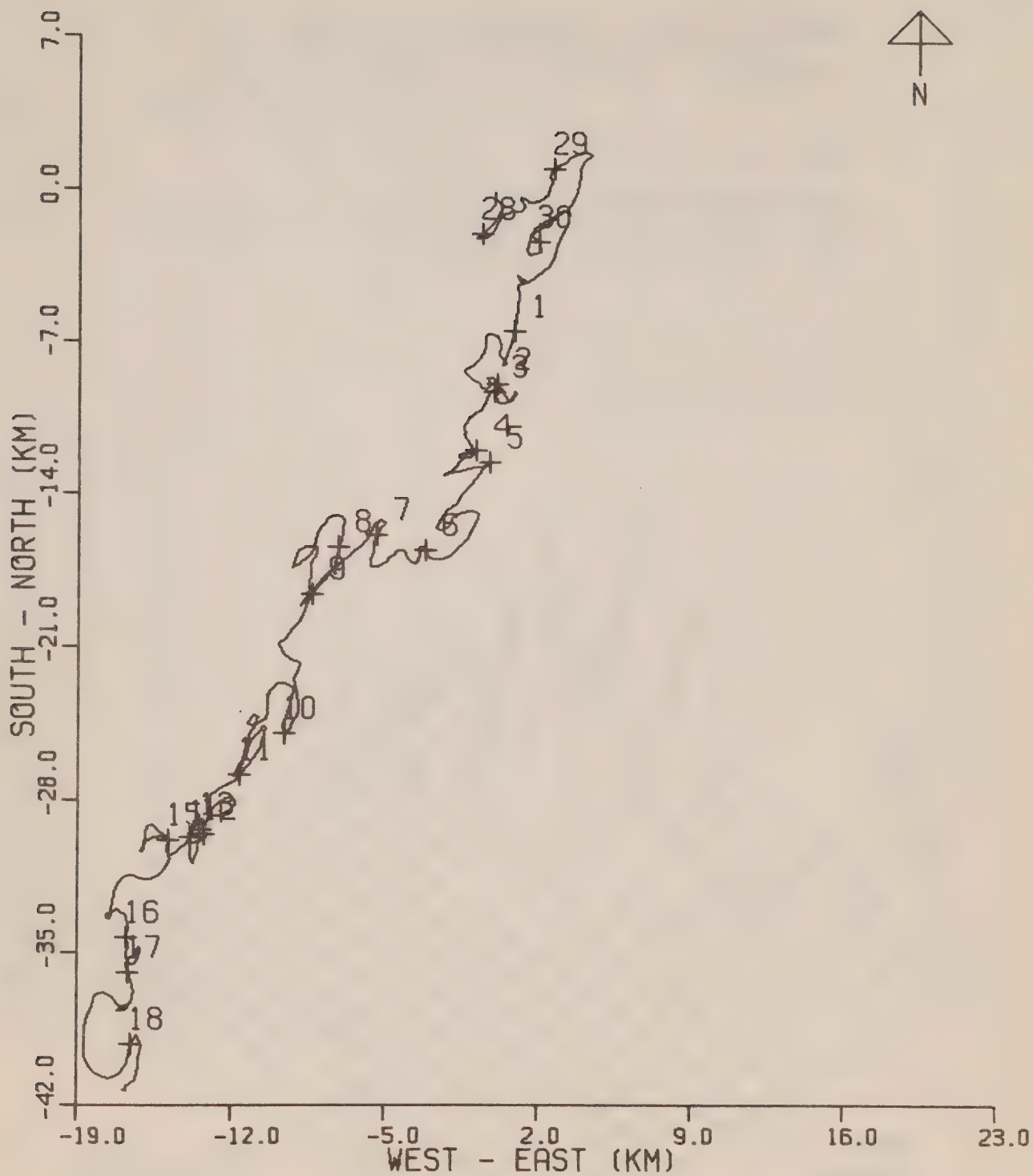
MEDIAN (PPT)	FREQUENCY NO. PCT .	140	280	420	560	700
29.61	0 0	.	.	.	.	.
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	1 0					
29.97	1 0					
29.99	6 0					
30.01	95 3	*****				
30.03	405 14	*****				
30.05	946 33	*****				
30.07	525 18	*****				
30.09	305 11	*****				
30.11	389 13	*****				
30.13	101 3	*****				
30.15	90 3	*****				
30.17	18 1	*				
30.19	4 0					
30.21	0 0					
30.23	1 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2887

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

STARTING DATE: 27/11/73    ENDING DATE: 18/12/73

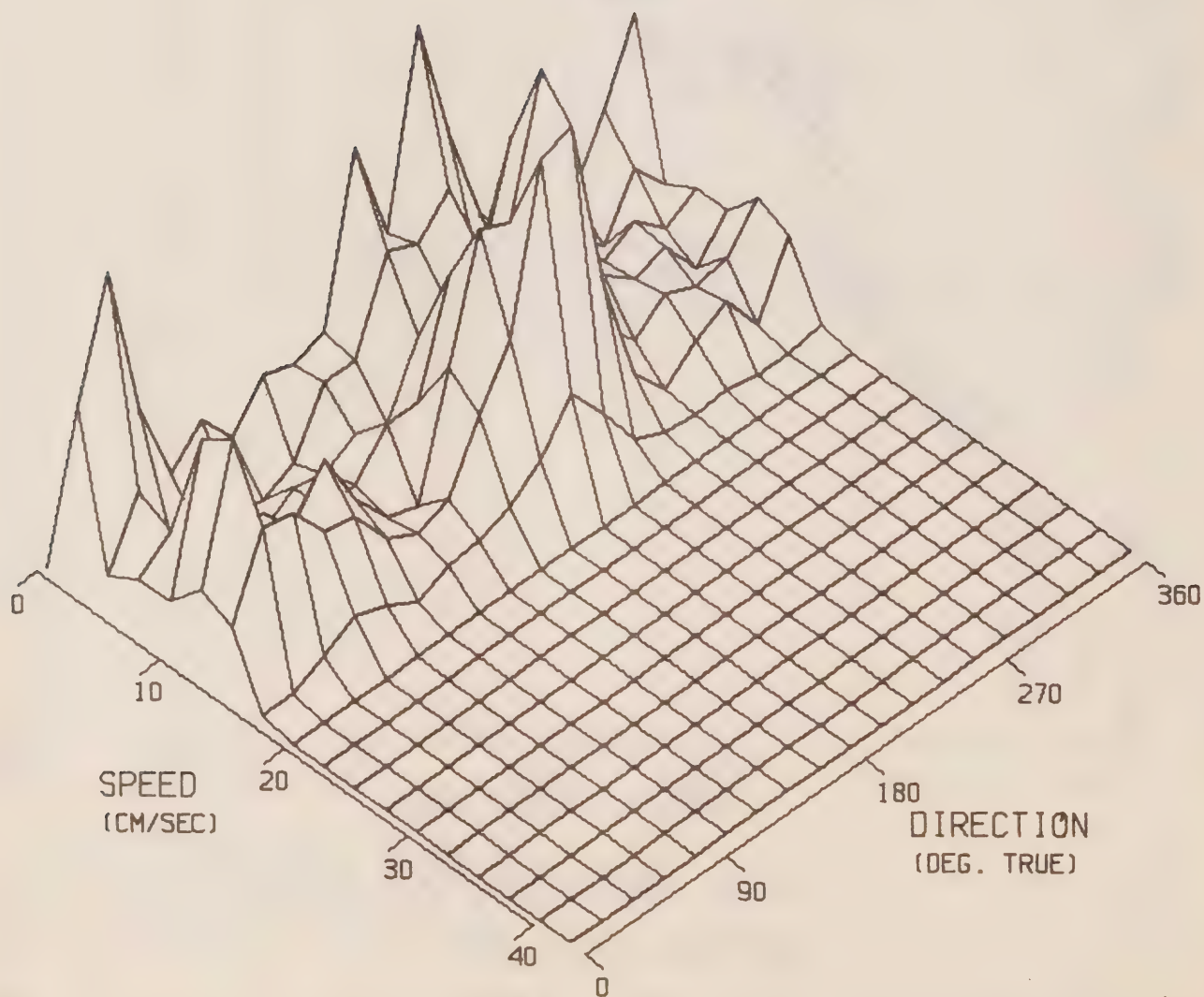


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 27/11/73

NO. OF SAMPLES = 3000



STN. NO. HS-55 DEPTH 150 M.

STARTING DATE: 27/11/73  
SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	045	015	023	036	001								120
15- 29	065	038	069	063	002								237
30- 44	032	013	033	034	004								116
45- 59	013	008	024	037	005								87
60- 74	016	005	031	032	009								93
75- 89	016	004	016	036	006								78
90-104	009	004	020	023	004								60
105-119	014	004	012	013	003								46
120-134	017	007	015	010	004								53
135-149	013	025	025	013	008								84
150-164	020	021	030	038	008								117
165-179	033	033	032	050	008								156
180-194	045	066	067	080	018								276
195-209	032	042	052	105	023								254
210-224	065	057	078	112	014								326
225-239	060	052	094	106	012								324
240-254	028	023	034	038	001								124
255-269	014	018	031	018	002								83
270-284	005	010	024	009	001								49
285-299	013	012	017	011	001								54
300-314	010	014	021	010	001								56
315-329	010	014	024	018									66
330-344	021	023	008	013									65
345-359	029	016	014	016	001								76

625 794 136 0 0 0 0 0 3000  
524 921 0 0 0 0 0

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M START DATE 27/11/73

MEDIAN (MM/S)	FREQUENCY NO. PCT	50 .	100 .	150 .	200 .	250 .
3	0 0					
9	0 0					
15	145 5	*****				
21	256 9	*****				
27	95 3	*****				
33	129 4	*****				
39	50 2	*****				
45	109 4	*****				
51	41 1	*****				
57	108 4	*****				
63	60 2	*****				
69	110 4	*****				
75	46 2	*****				
81	48 2	*****				
87	104 3	*****				
93	82 3	*****				
99	170 6	*****				
105	76 3	*****				
111	201 7	*****				
117	113 4	*****				
123	213 7	*****				
129	93 3	*****				
135	194 6	*****				
141	92 3	*****				
147	193 6	*****				
153	76 3	*****				
159	60 2	*****				
165	104 3	*****				
171	21 1	****				
177	9 0	**				
183	1 0					
189	1 0					
195	0 0					
201	0 0					
207	0 0					
213	0 0					
219	0 0					
225	0 0					
231	0 0					
237	0 0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 27/11/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	79	3	*****	.	.	.	.
15	122	4	*****				
25	163	5	*****				
35	87	3	*****				
45	59	2	*****				
55	57	2	*****				
65	58	2	*****				
75	64	2	*****				
85	46	2	*****				
95	40	1	*****				
105	30	1	*****				
115	34	1	*****				
125	38	1	*****				
135	39	1	*****				
145	63	2	*****				
155	75	3	*****				
165	78	3	*****				
175	130	4	*****				
185	192	6	*****				
195	162	5	*****				
205	172	6	*****				
215	207	7	*****				
225	255	9	*****				
235	184	6	*****				
245	87	3	*****				
255	68	2	*****				
265	49	2	*****				
275	34	1	*****				
285	33	1	*****				
295	34	1	*****				
305	45	2	*****				
315	36	1	*****				
325	42	1	*****				
335	43	1	*****				
345	38	1	*****				
355	57	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M START DATE 27/11/73

MEDIAN (DEG.C)	FREQ'NCY NO.	PCT .	80 .	160 .	240 .	320 .	400 .
8.21	0	0					
8.23	0	0					
8.25	0	0					
8.27	0	0					
8.29	0	0					
8.31	0	0					
8.33	33	1	*****				
8.35	83	3	*****				
8.37	139	5	*****				
8.39	259	9	*****				
8.41	0	0					
8.43	498	17	*****				
8.45	305	10	*****				
8.47	169	6	*****				
8.49	133	4	*****				
8.51	120	4	*****				
8.53	172	6	*****				
8.55	84	3	*****				
8.57	0	0					
8.59	149	5	*****				
8.61	248	8	*****				
8.63	310	10	*****				
8.65	149	5	*****				
8.67	100	3	*****				
8.69	38	1	*****				
8.71	9	0	*				
8.73	0	0					
8.75	2	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					
8.91	0	0					
8.93	0	0					
8.95	0	0					
8.97	0	0					
8.99	0	0					

NO. OF SAMPLES OVER 9.00 = 0  
 NO. OF SAMPLES UNDER 8.20 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

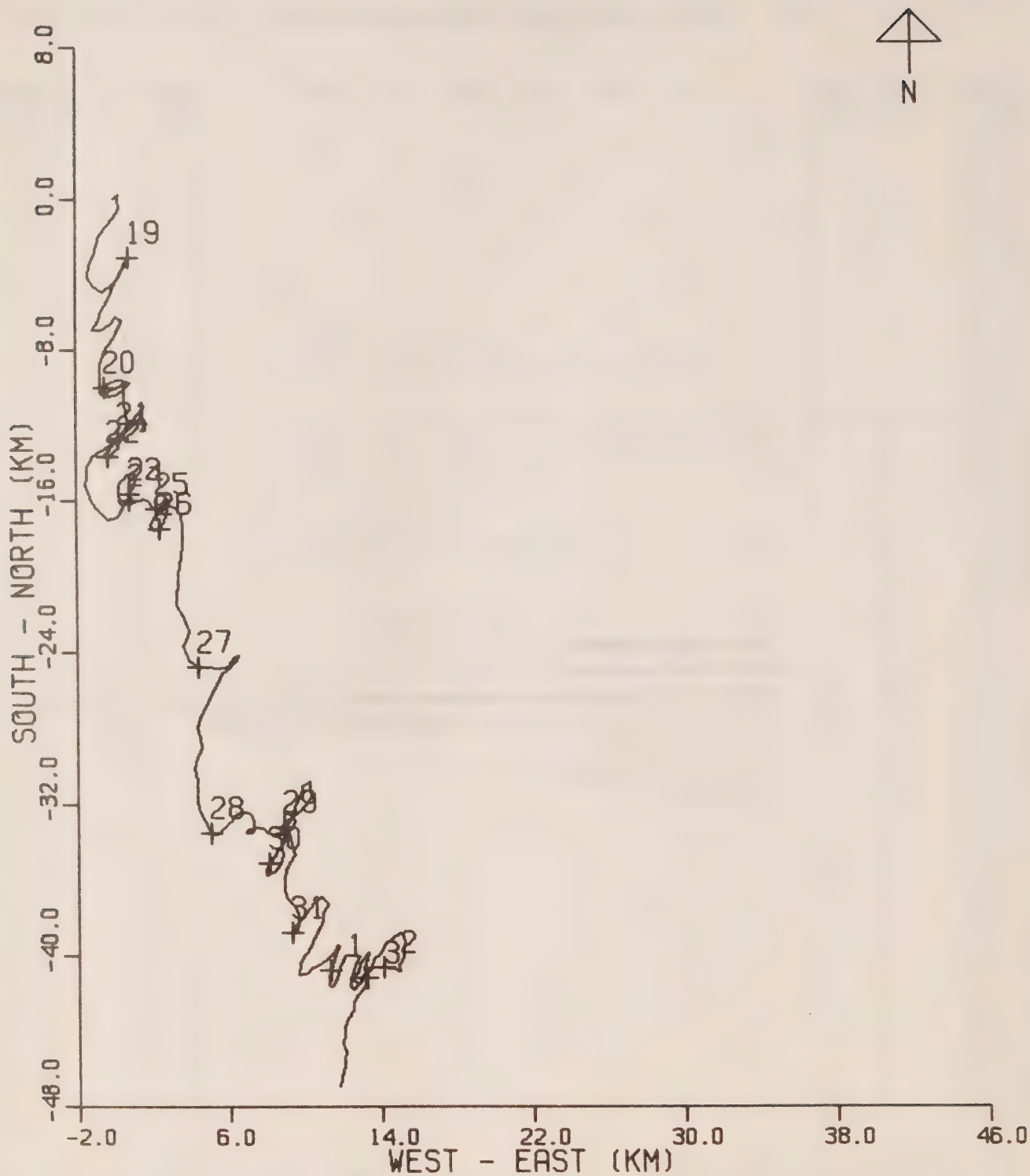


## HISTOGRAM OF SALINITY

HOWE SOUND HS-55 DEPTH 150M START DATE 27/11/73

MEDIAN (PPT)	FREQUENCY NO. PCT .	190 .	380 .	570 .	760 .	950 .
29.61	0 0					
29.63	0 0					
29.65	0 0					
29.67	0 0					
29.69	0 0					
29.71	0 0					
29.73	0 0					
29.75	0 0					
29.77	0 0					
29.79	0 0					
29.81	0 0					
29.83	0 0					
29.85	0 0					
29.87	0 0					
29.89	0 0					
29.91	0 0					
29.93	0 0					
29.95	0 0					
29.97	0 0					
29.99	29 1					**
30.01	262 9					*****
30.03	258 9					*****
30.05	956 32					*****
30.07	724 24					*****
30.09	243 8					*****
30.11	334 11					*****
30.13	171 6					*****
30.15	17 1					*
30.17	6 0					
30.19	0 0					
30.21	0 0					
30.23	0 0					
30.25	0 0					
30.27	0 0					
30.29	0 0					
30.31	0 0					
30.33	0 0					
30.35	0 0					
30.37	0 0					
30.39	0 0					

NO. OF SAMPLES OVER 30.40 = 0  
 NO. OF SAMPLES UNDER 29.60 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5S

DEPTH 150 M.

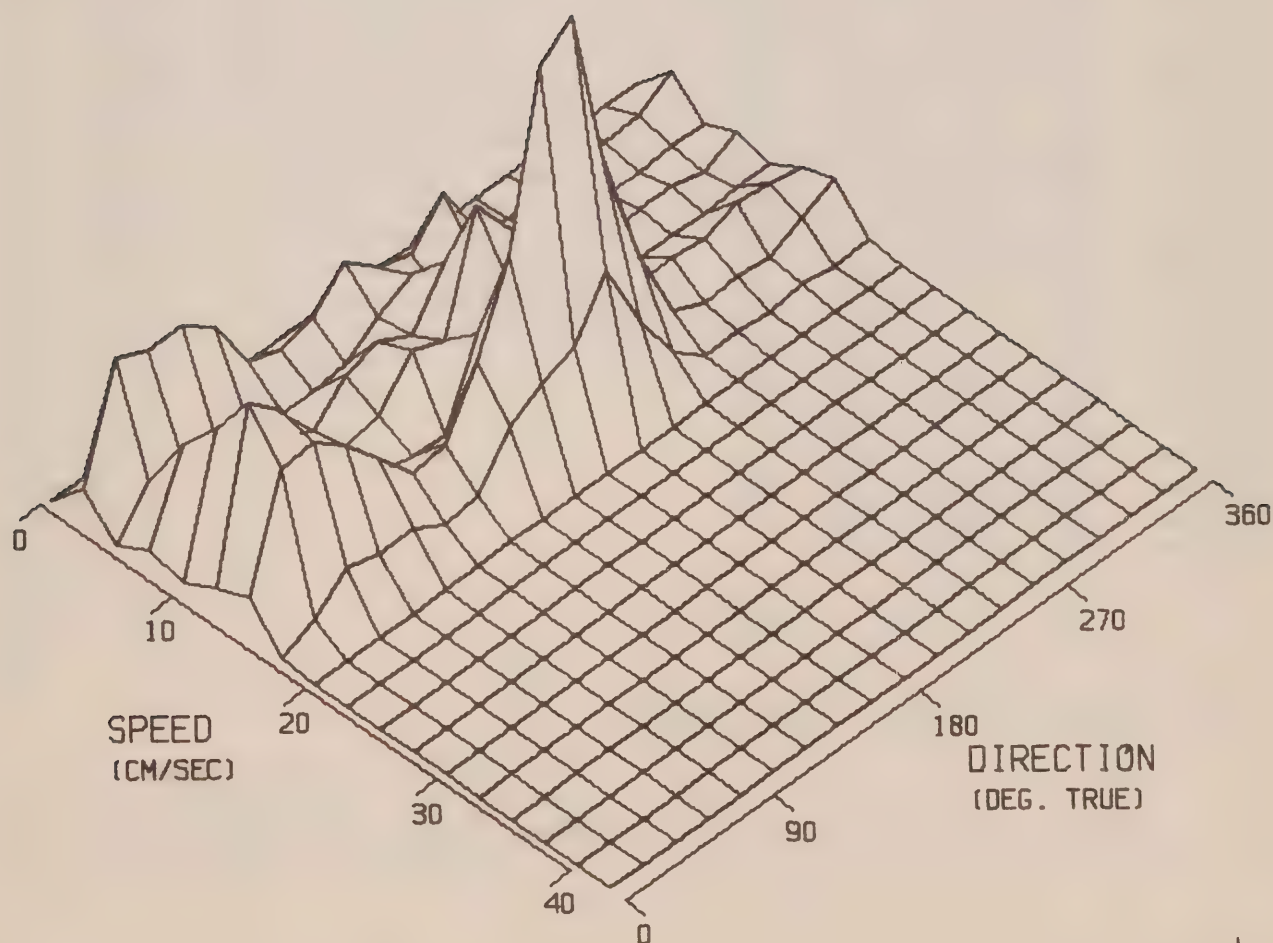
STARTING DATE: 18/12/73    ENDING DATE: 3/ 1/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-55      DEPTH 150 M.

STARTING DATE: 18/12/73

NO. OF SAMPLES = 2343



STN. NO. HS-58 DEPTH 150 M.

STARTING DATE: 18/12/73

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

SPEED

DIR	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	016	003	009	028	001								57
15- 29	038	027	059	086	005								215
30- 44	025	019	049	066	013								172
45- 59	033	018	031	055	009								146
60- 74	034	010	017	031	008								100
75- 89	021	010	012	025	009								77
90-104	012	005	013	020	006								56
105-119	009	008	011	016	002								46
120-134	009	014	018	015	012								68
135-149	011	011	029	033	017								101
150-164	016	010	032	051	021								130
165-179	016	038	044	080	028								206
180-194	010	015	063	110	022								220
195-209	009	004	051	116	039								219
210-224	019	017	035	089	021								181
225-239	007	013	043	074	014								151
240-254	002	001	016	029	003								51
255-269	001	008	004	011	001								25
270-284	001	008	006	007	001								23
285-299	003	003	006	004									16
300-314	003	003	007	009	001								23
315-329	003	005	002	011	001								22
330-344	003	002	003	012									20
345-359	003	003	002	010									18
	304		562		234		0		0		0		2343
		255		988		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-5S DEPTH 150M START DATE 18/12/73

MEDIAN (MM/S)	FREQUENCY NO.	PCT	50	100	150	200	250
3	0	0	.	.	.	.	.
9	0	0					
15	163	7	*****				
21	78	3	*****				
27	21	1	*****				
33	42	2	*****				
39	18	1	*****				
45	40	2	*****				
51	18	1	*****				
57	48	2	*****				
63	22	1	*****				
69	73	3	*****				
75	36	2	*****				
81	42	2	*****				
87	103	4	*****				
93	53	2	*****				
99	116	5	*****				
105	61	3	*****				
111	128	5	*****				
117	59	3	*****				
123	121	5	*****				
129	92	4	*****				
135	221	9	*****				
141	102	4	*****				
147	257	11	*****				
153	85	4	*****				
159	110	5	*****				
165	154	7	*****				
171	35	1	*****				
177	32	1	*****				
183	4	0	*				
189	9	0	**				
195	0	0					
201	0	0					
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2343  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M START DATE 18/12/73

MEDIAN (DEG.T)	FREQNCY NO.	PCT	50	100	150	200	250
5	36	2	*****				
15	57	2	*****				
25	189	8	*****				
35	109	5	*****				
45	113	5	*****				
55	95	4	*****				
65	64	3	*****				
75	65	3	*****				
85	44	2	*****				
95	35	1	*****				
105	31	1	*****				
115	34	1	*****				
125	43	2	*****				
135	56	2	*****				
145	73	3	*****				
155	76	3	*****				
165	119	5	*****				
175	151	6	*****				
185	154	7	*****				
195	148	6	*****				
205	135	6	*****				
215	123	5	*****				
225	106	5	*****				
235	97	4	*****				
245	37	2	*****				
255	15	1	***				
265	17	1	***				
275	16	1	***				
285	13	1	***				
295	9	0	**				
305	17	1	***				
315	14	1	***				
325	14	1	***				
335	14	1	***				
345	16	1	***				
355	8	0	**				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2343  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 150M START DATE 18/12/73

MEDIAN (DEG.C)	FREQUENCY NO.	PCT	100	200	300	400	500
8.21	0	0	.	.	.	.	.
8.23	0	0					
8.25	0	0					
8.27	0	0					
8.29	0	0					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	7	0	*				
8.41	0	0					
8.43	286	12	*****				
8.45	358	15	*****				
8.47	372	16	*****				
8.49	401	17	*****				
8.51	376	16	*****				
8.53	245	10	*****				
8.55	263	11	*****				
8.57	0	0					
8.59	34	1	***				
8.61	1	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					
8.91	0	0					
8.93	0	0					
8.95	0	0					
8.97	0	0					
8.99	0	0					

NO. OF SAMPLES OVER 9.00 = 0

NO. OF SAMPLES UNDER 8.20 = 0

TOTAL NO. OF OBSERVATIONS = 2343

SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF SALINITY

HOWE SOUND HS-58 DEPTH 150M START DATE 18/12/73

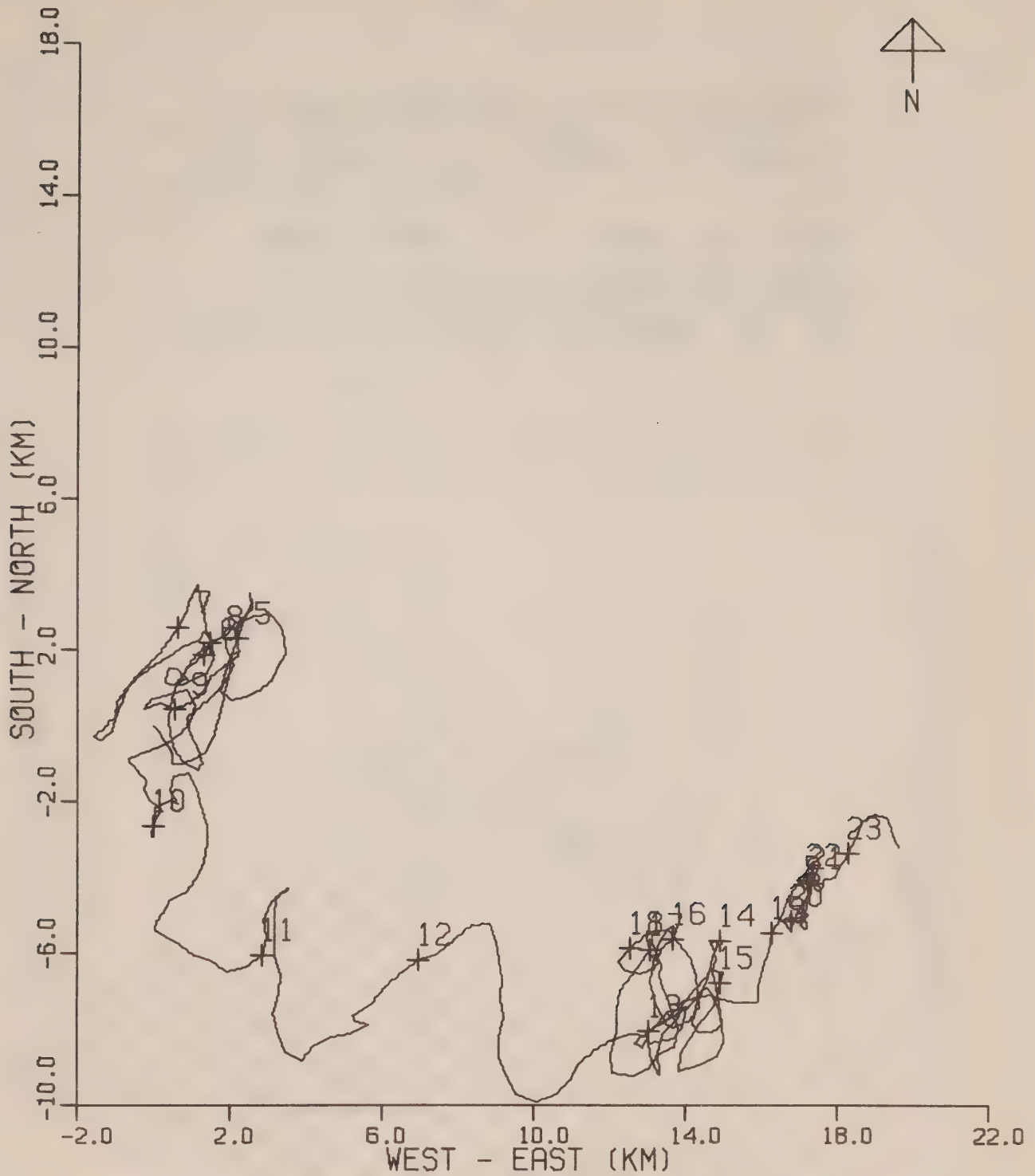
MEDIAN (PPT)	FREQUENCY		140	280	420	560	700
	NO.	PCT .	.	.	.	.	.
29.61	0	0					
29.63	0	0					
29.65	0	0					
29.67	0	0					
29.69	0	0					
29.71	0	0					
29.73	0	0					
29.75	0	0					
29.77	0	0					
29.79	0	0					
29.81	0	0					
29.83	0	0					
29.85	0	0					
29.87	0	0					
29.89	0	0					
29.91	0	0					
29.93	0	0					
29.95	0	0					
29.97	2	0					
29.99	35	1	***				
30.01	116	5	*****				
30.03	180	8	*****				
30.05	1069	46	*****				
30.07	552	24	*****				
30.09	27	1	**				
30.11	348	15	*****				
30.13	9	0	*				
30.15	2	0					
30.17	2	0					
30.19	1	0					
30.21	0	0					
30.23	0	0					
30.25	0	0					
30.27	0	0					
30.29	0	0					
30.31	0	0					
30.33	0	0					
30.35	0	0					
30.37	0	0					
30.39	0	0					

NO. OF SAMPLES OVER 30.40 = 0

NO. OF SAMPLES UNDER 29.60 = 0

TOTAL NO. OF OBSERVATIONS = 2343

SAMPLE INTERVAL = 10 MINUTES



STN. NO. HS-5

DEPTH 150M

STARTING DATE: 4/ 1/74    ENDING DATE: 23/ 1/74

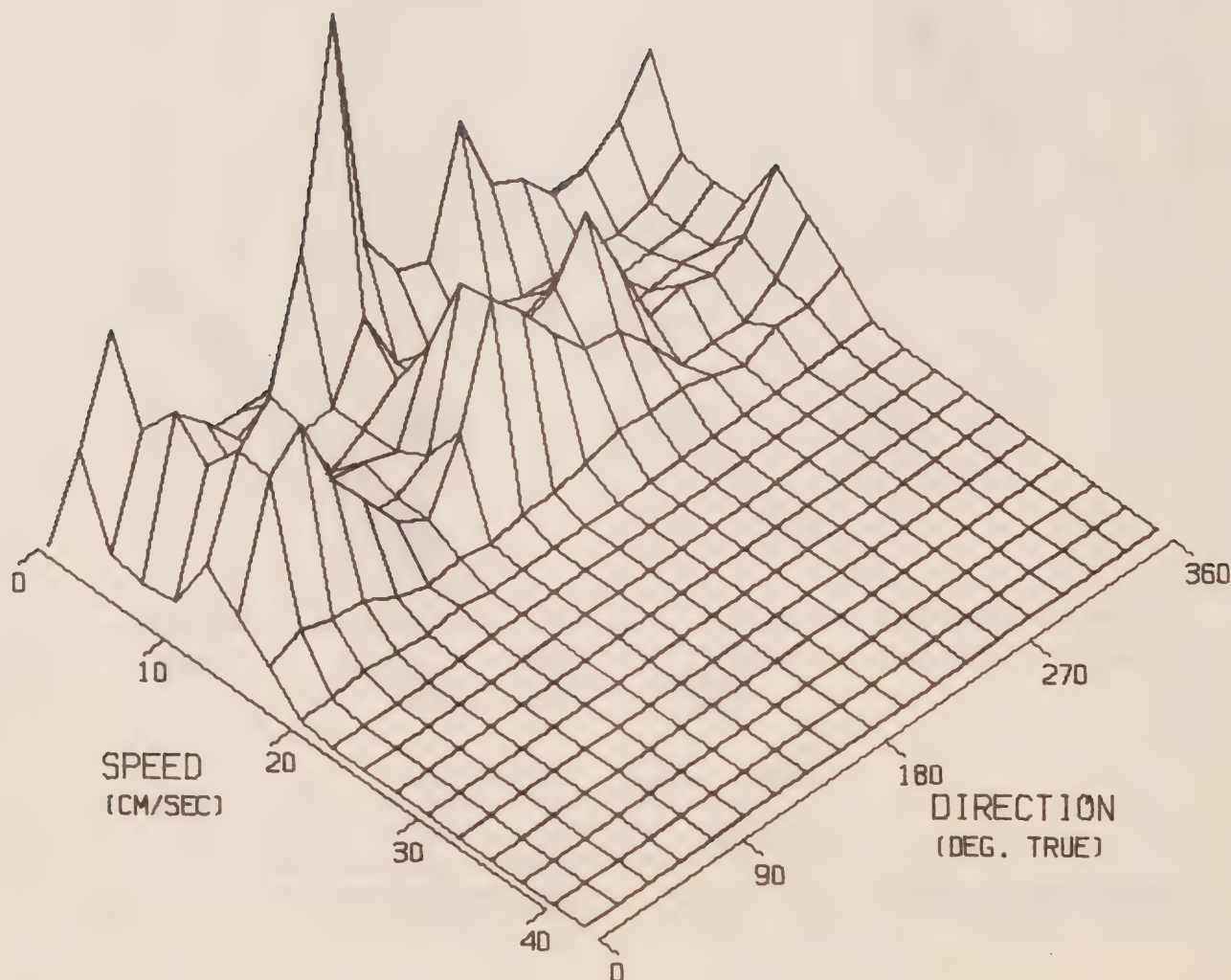
# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5

DEPTH 150M

STARTING DATE: 4/ 1/74

NO. OF SAMPLES = 2747





STN. NO. HS-5

DEPTH 150M

STARTING DATE: 4/ 1/74

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	037	029	027	053	011								157
15- 29	067	080	066	100	016								329
30- 44	022	030	037	099	011								199
45- 59	020	010	022	077	012								141
60- 74	017	014	033	044	010								118
75- 89	016	010	022	032	007								87
90-104	006	011	020	018	005								60
105-119	007	006	016	008	003								40
120-134	007	011	012	015	001								46
135-149	048	010	019	032	001								110
150-164	107	029	057	089	003								285
165-179	070	026	044	077	005								222
180-194	015	011	025	052	001								104
195-209	021	006	019	049	005								100
210-224	015	008	017	047	007								94
225-239	040	009	028	059	004								140
240-254	040	012	043	052	012								159
255-269	027	005	028	028	005								93
270-284	020	002	013	006	005								46
285-299	015	004	005	010	002								36
300-314	008	001	009	007	001								26
315-329	015	003	006	005	007								36
330-344	016	003	007	011	009								46
345-359	024	006	009	026	008								73
	680		584		151		0		0		0		2747
	336		996		0		0		0		0		

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 0

## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M. START DATE 04/01/74

MEDIAN (MM/S)	FREQUENCY NO.	PCT	60	120	180	240	300
3	0	0	.	.	.	.	.
9	0	0					
15	274	10	*****				
21	241	9	*****				
27	69	3	*****				
33	96	3	*****				
39	37	1	*****				
45	61	2	*****				
51	32	1	*****				
57	63	2	*****				
63	33	1	*****				
69	75	3	*****				
75	35	1	*****				
81	33	1	*****				
87	74	3	*****				
93	49	2	*****				
99	98	4	*****				
105	66	2	*****				
111	160	6	*****				
117	104	4	*****				
123	198	7	*****				
129	112	4	*****				
135	226	8	*****				
141	109	4	*****				
147	209	8	*****				
153	86	3	*****				
159	56	2	*****				
165	75	3	*****				
171	17	1	***				
177	23	1	***				
183	14	1	**				
189	11	0	**				
195	8	0	*				
201	3	0	*				
207	0	0					
213	0	0					
219	0	0					
225	0	0					
231	0	0					
237	0	0					

NO. OF SAMPLES OVER 240 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2747  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 150M. START DATE 04/01/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	100	4	*****				
15	197	7	*****				
25	197	7	*****				
35	144	5	*****				
45	110	4	*****				
55	84	3	*****				
65	86	3	*****				
75	63	2	*****				
85	58	2	*****				
95	39	1	*****				
105	28	1	*****				
115	28	1	*****				
125	32	1	*****				
135	42	2	*****				
145	96	3	*****				
155	186	7	*****				
165	189	7	*****				
175	125	5	*****				
185	66	2	*****				
195	75	3	*****				
205	63	2	*****				
215	60	2	*****				
225	75	3	*****				
235	100	4	*****				
245	115	4	*****				
255	78	3	*****				
265	51	2	*****				
275	35	1	*****				
285	24	1	*****				
295	22	1	****				
305	17	1	***				
315	23	1	*****				
325	21	1	****				
335	30	1	*****				
345	39	1	*****				
355	49	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 2747  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-55 DEPTH 150M, START DATE 04/01/74

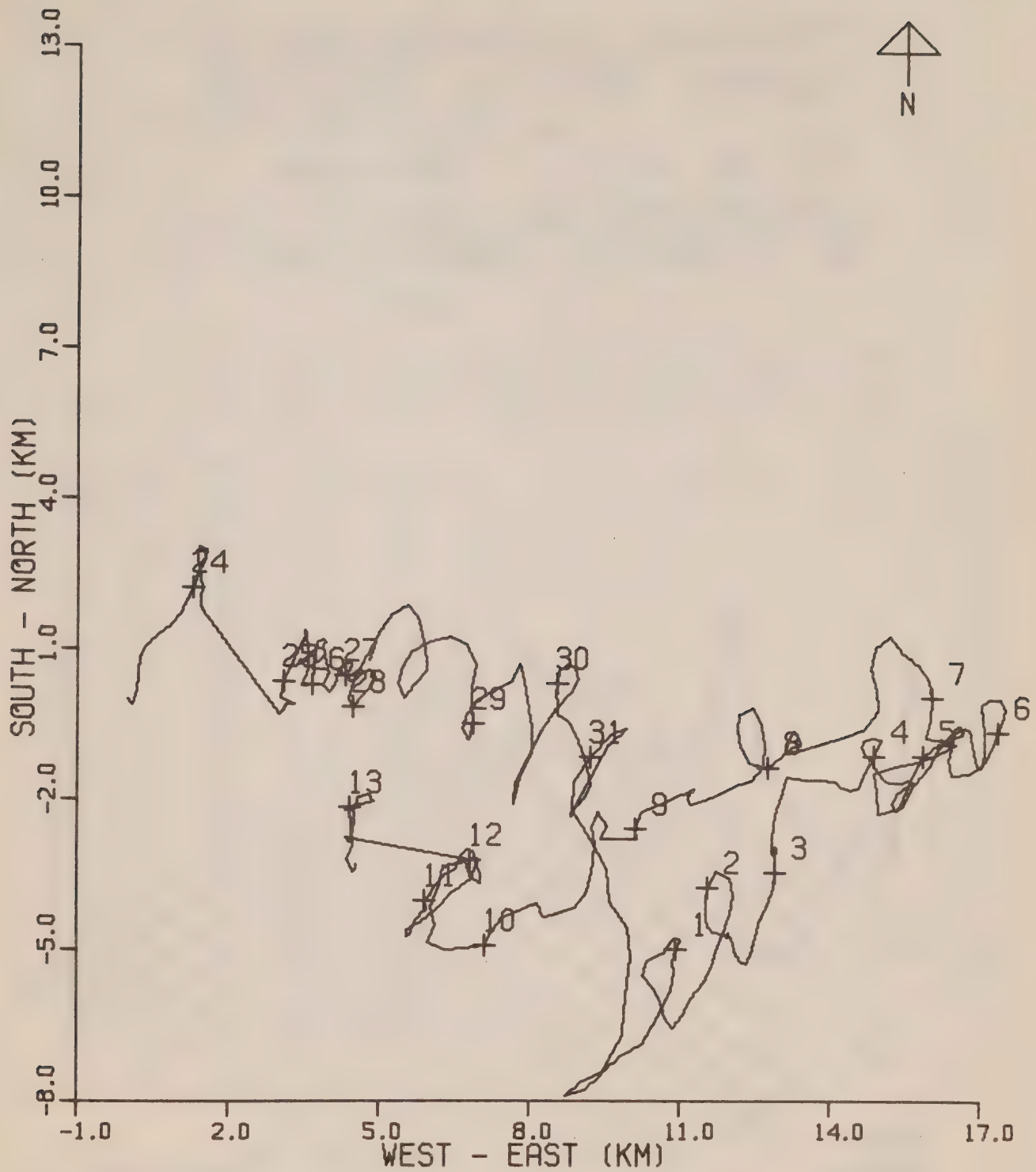
MEDIAN (DEG.C)	FREQUNCY NO. PCT .	180 .	360 .	540 .	720 .	900 .
8.11	0 0					
8.13	0 0					
8.15	0 0					
8.17	0 0					
8.19	0 0					
8.21	0 0					
8.23	0 0					
8.25	0 0					
8.27	0 0					
8.29	0 0					
8.31	0 0					
8.33	0 0					
8.35	0 0					
8.37	0 0					
8.39	18 1 *					
8.41	0 0					
8.43	235 9 *****					
8.45	0 0					
8.47	902 33 *****					
8.49	759 28 *****					
8.51	0 0					
8.53	618 22 *****					
8.55	0 0					
8.57	192 7 *****					
8.59	23 1 *					
8.61	0 0					
8.63	0 0					
8.65	0 0					
8.67	0 0					
8.69	0 0					
8.71	0 0					
8.73	0 0					
8.75	0 0					
8.77	0 0					
8.79	0 0					
8.81	0 0					
8.83	0 0					
8.85	0 0					
8.87	0 0					
8.89	0 0					

NO. OF SAMPLES OVER 8.90 = 0

NO. OF SAMPLES UNDER 8.10 = 0

TOTAL NO. OF OBSERVATIONS = 2747

SAMPLE INTERVAL = 10 MINUTES



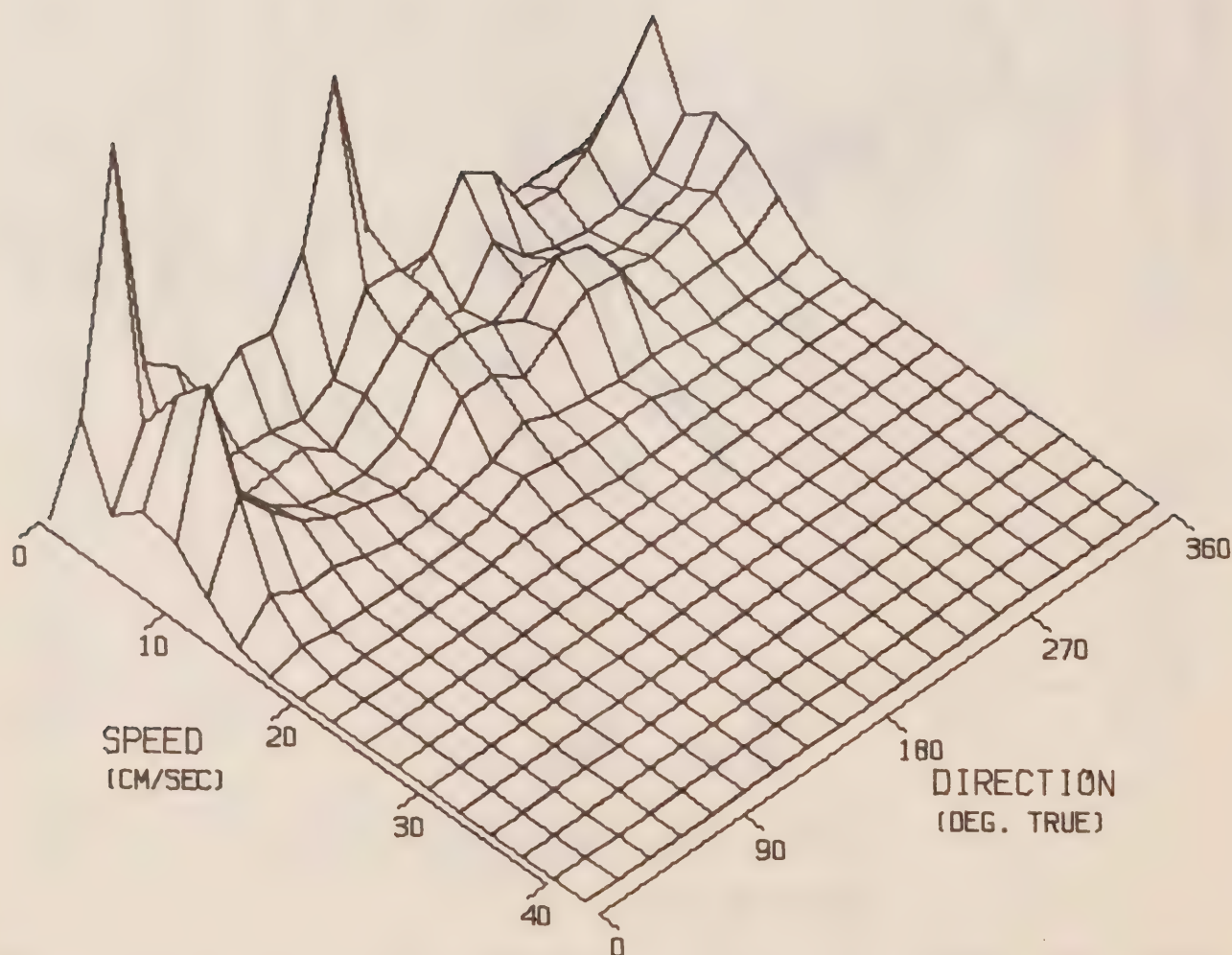


# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5      DEPTH 150M.

STARTING DATE: 23/ 1/74

NO. OF SAMPLES = 3000



STN, NO, HS-5      DEPTH 150M.

STARTING DATE: 23/ 1/74  
SAMPLE INTERVAL = 10 MIN.FREQUENCY DISTRIBUTION OF DIRECTION (DEG, TRUE)  
AND SPEED (MM/SEC).

DIR	SPEED											
	000	040	080	120	160	200	240	280	320	360	400	440
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	039	079	119	159	199	239	279	319	359	399	439	479
0- 14	069	052	066	010								197
15- 29	187	113	153	047	005							505
30- 44	062	032	060	031								185
45- 59	059	010	034	020	002							125
60- 74	028	013	023	020								84
75- 89	023	018	013	010								64
90-104	036	018	012	003								69
105-119	031	007	002	004								44
120-134	033	010	004	003	001	001						52
135-149	064	026	011	010	006	002						119
150-164	124	055	047	014	011							251
165-179	086	098	066	023	009	001						283
180-194	028	039	039	033	006							145
195-209	012	010	027	019	007							75
210-224	021	007	026	021	004							79
225-239	029	034	041	020	007							131
240-254	045	035	069	029	003							181
255-269	035	015	040	015								105
270-284	007	006	020	004								37
285-299	010	003	010	005								28
300-314	009	003	013	002								27
315-329	019	006	017	002								44
330-344	033	012	023	003								71
345-359	038	023	029	005								95
	1088		845		61		0		0		0	2996
		645		353		4		0		0		0

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 4

## HISTOGRAM OF SPEED

HOWE SOUND HS-58 DEPTH 150M, START DATE 23/01/74

MEDIAN (MM/S)	FREQUNCY NO. PCT .	90 .	180 .	270 .	360 .	450 .
3	0 0					
9	0 0					
15	491 16	*****				
21	357 12	*****				
27	93 3	*****				
33	147 5	*****				
39	64 2	*****				
45	118 4	*****				
51	65 2	*****				
57	114 4	*****				
63	83 3	*****				
69	132 4	*****				
75	69 2	*****				
81	61 2	*****				
87	126 4	*****				
93	76 3	*****				
99	194 6	*****				
105	107 4	*****				
111	201 7	*****				
117	80 3	*****				
123	136 5	*****				
129	63 2	*****				
135	49 2	*****				
141	30 1	***				
147	46 2	*****				
153	14 0	**				
159	15 1	**				
165	20 1	**				
171	8 0	*				
177	11 0	*				
183	7 0	*				
189	11 0	*				
195	1 0					
201	7 0	*				
207	0 0					
213	0 0					
219	0 0					
225	0 0					
231	0 0					
237	0 0					

NO. OF SAMPLES OVER 240 = 4  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-55 DEPTH 150M. START DATE 23/01/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	60	120	180	240	300
5	133	4	*****				
15	218	7	*****				
25	368	12	*****				
35	137	5	*****				
45	78	3	*****				
55	85	3	*****				
65	57	2	*****				
75	48	2	*****				
85	38	1	*****				
95	43	1	*****				
105	45	2	*****				
115	25	1	****				
125	37	1	*****				
135	37	1	*****				
145	109	4	*****				
155	149	5	*****				
165	211	7	*****				
175	178	6	*****				
185	102	3	*****				
195	55	2	*****				
205	52	2	*****				
215	51	2	*****				
225	63	2	*****				
235	102	3	*****				
245	115	4	*****				
255	127	4	*****				
265	39	1	*****				
275	24	1	****				
285	24	1	****				
295	14	0	**				
305	19	1	***				
315	22	1	****				
325	33	1	*****				
335	42	1	*****				
345	51	2	*****				
355	69	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 3000  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 150M. START DATE 23/01/74

MEDIAN (DEG.C)	FREQUENCY NO.	PCT .	190 .	380 .	570 .	760 .	950 .
8.21	0	0					
8.23	0	0					
8.25	0	0					
8.27	0	0					
8.29	0	0					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	20	1	*				
8.45	0	0					
8.47	286	10	*****				
8.49	1037	35	*****				
8.51	0	0					
8.53	959	32	*****				
8.55	0	0					
8.57	694	23	*****				
8.59	4	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					
8.91	0	0					
8.93	0	0					
8.95	0	0					
8.97	0	0					
8.99	0	0					

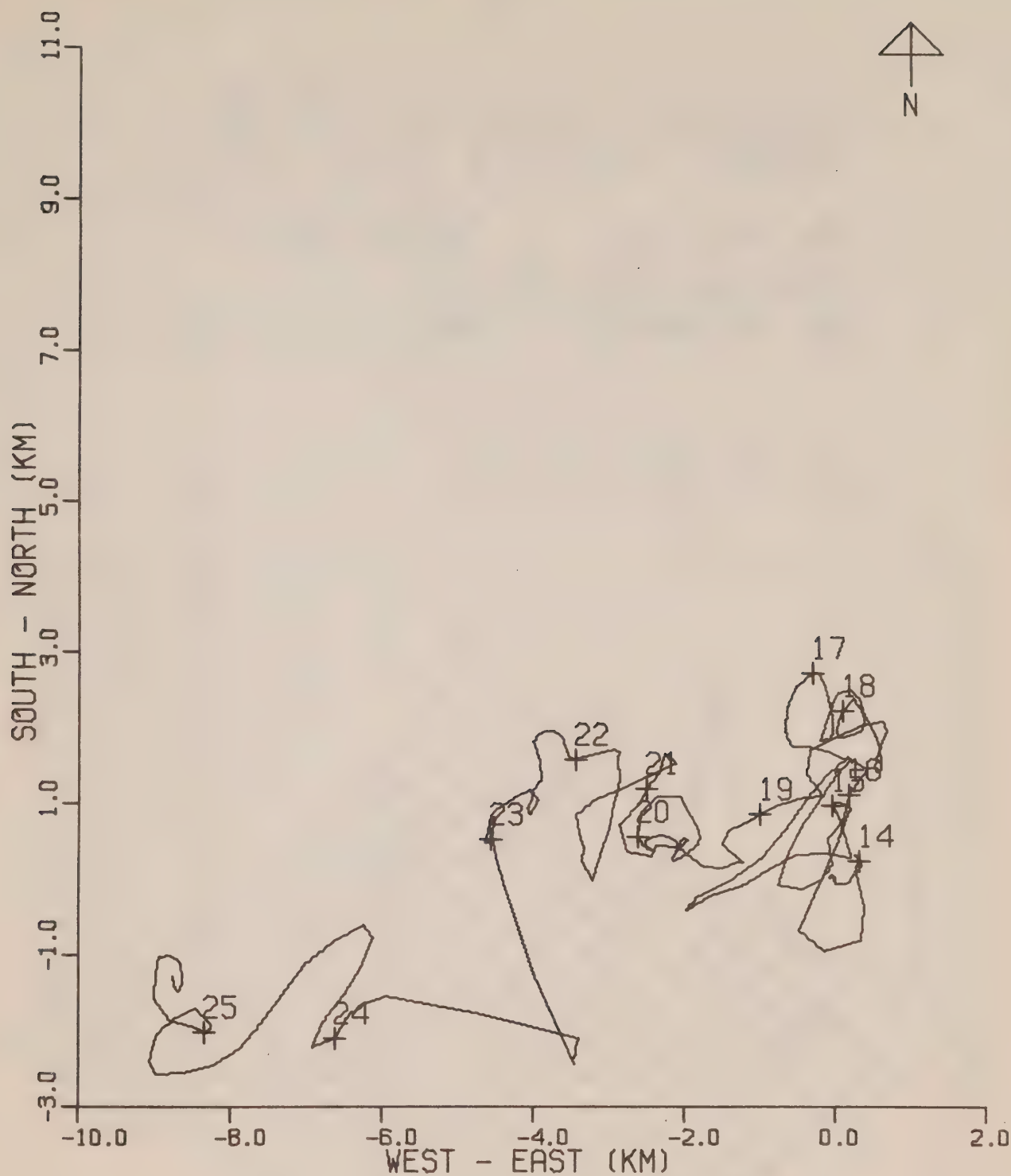
NO. OF SAMPLES OVER 9.00 = 0

NO. OF SAMPLES UNDER 8.20 = 0

TOTAL NO. OF OBSERVATIONS = 3000

SAMPLE INTERVAL = 10 MINUTES





STN. NO. HS-5

DEPTH 150M.

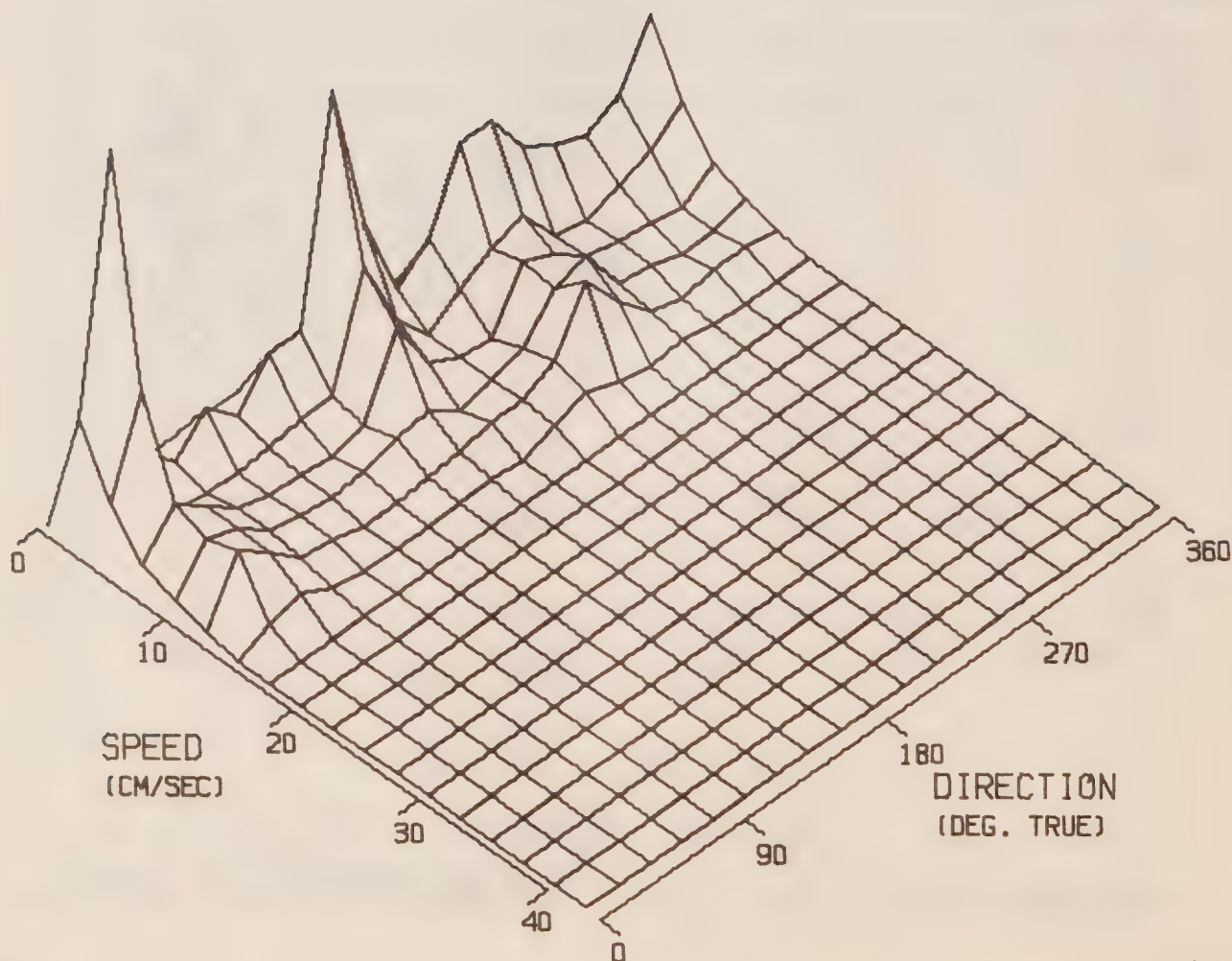
STARTING DATE: 13/ 2/74    ENDING DATE: 25/ 2/74

# FREQUENCY DISTRIBUTION OF CURRENT SPEED & DIRECTION

STN. NO. HS-5      DEPTH 150M.

STARTING DATE: 13/ 2/74

NO. OF SAMPLES = 1769



STN. NO. HS-5

DEPTH 150M.

STARTING DATE: 13/ 2/74

SAMPLE INTERVAL = 10 MIN.

FREQUENCY DISTRIBUTION OF DIRECTION (DEG. TRUE)  
AND SPEED (MM/SEC).

## SPEED

	000	040	080	120	160	200	240	280	320	360	400	440	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DIR	039	079	119	159	199	239	279	319	359	399	439	479	
0- 14	066	037	012	002									117
15- 29	129	081	039	017									266
30- 44	024	014	031	015									84
45- 59	008	008	017	011									44
60- 74	007	004	005	008									24
75- 89	017	003	006	002									28
90-104	007	006	005										18
105-119	013	007	001										21
120-134	021	005	006										32
135-149	020	005	013	001									39
150-164	103	051	015	003									172
165-179	059	058	013	002									132
180-194	023	011	008	004									46
195-209	010	008	006	007									31
210-224	019	008	007	017									51
225-239	030	027	020	019									96
240-254	052	047	062	012									173
255-269	047	019	032	007									105
270-284	029	017	012	005									63
285-299	024	007	008	004									43
300-314	023	008	010	002									43
315-329	018	016	003	002									39
330-344	020	010	004	002									36
345-359	036	019	004	003									62
	805		339		0		0		0		0		1765
		476		145		0		0		0		0	

NO. OF SPEEDS EXCEEDING 480 MM/SEC = 4

## HISTOGRAM OF SPEED

HOWE SOUND HS-55 DEPTH 150M, START DATE 13/02/74

MEDIAN (MM/S)	FREQUENCY NO. PCT	60	120	180	240	300
3	0 0	.	.	.	.	.
9	0 0					
15	304 17	*****				
21	281 16	*****				
27	93 5	*****				
33	127 7	*****				
39	73 4	*****				
45	142 8	*****				
51	49 3	*****				
57	68 4	*****				
63	28 2	*****				
69	84 5	*****				
75	32 2	*****				
81	32 2	*****				
87	73 4	*****				
93	28 2	*****				
99	61 3	*****				
105	29 2	*****				
111	82 5	*****				
117	34 2	*****				
123	54 3	*****				
129	20 1	***				
135	45 3	*****				
141	13 1	**				
147	10 1	**				
153	3 0	*				
159	0 0					
165	0 0					
171	0 0					
177	0 0					
183	0 0					
189	0 0					
195	0 0					
201	0 0					
207	0 0					
213	0 0					
219	0 0					
225	0 0					
231	0 0					
237	0 0					

NO. OF SAMPLES OVER 240 = 4  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1769  
 SAMPLE INTERVAL = 10 MINUTES

## HISTOGRAM OF DIRECTION

HOWE SOUND HS-5S DEPTH 150M, START DATE 13/02/74

MEDIAN (DEG.T)	FREQUENCY NO.	PCT	50	100	150	200	250
5	71	4	*****				
15	152	9	*****				
25	170	10	*****				
35	59	3	*****				
45	35	2	*****				
55	24	1	*****				
65	15	1	***				
75	18	1	****				
85	21	1	****				
95	13	1	***				
105	7	0	*				
115	19	1	****				
125	23	1	*****				
135	14	1	***				
145	38	2	*****				
155	103	6	*****				
165	131	7	*****				
175	70	4	*****				
185	29	2	*****				
195	25	1	*****				
205	21	1	****				
215	32	2	*****				
225	50	3	*****				
235	75	4	*****				
245	107	6	*****				
255	111	6	*****				
265	53	3	*****				
275	39	2	*****				
285	42	2	*****				
295	23	1	*****				
305	32	2	*****				
315	22	1	****				
325	27	2	*****				
335	25	1	*****				
345	36	2	*****				
355	37	2	*****				
365	0	0					
375	0	0					
385	0	0					
395	0	0					

NO. OF SAMPLES OVER 400 = 0  
 NO. OF SAMPLES UNDER 0 = 0  
 TOTAL NO. OF OBSERVATIONS = 1769  
 SAMPLE INTERVAL = 10 MINUTES



## HISTOGRAM OF TEMPERATURE

HOWE SOUND HS-58 DEPTH 150M, START DATE 13/02/74

MEDIAN (DEG.C)	FREQ'NCY NO.	PCT	140	280	420	560	700
8.21	0	0	.	.	.	.	.
8.23	0	0					
8.25	0	0					
8.27	0	0					
8.29	0	0					
8.31	0	0					
8.33	0	0					
8.35	0	0					
8.37	0	0					
8.39	0	0					
8.41	0	0					
8.43	0	0					
8.45	0	0					
8.47	473	27	*****				
8.49	624	35	*****				
8.51	0	0					
8.53	637	36	*****				
8.55	0	0					
8.57	35	2	***				
8.59	0	0					
8.61	0	0					
8.63	0	0					
8.65	0	0					
8.67	0	0					
8.69	0	0					
8.71	0	0					
8.73	0	0					
8.75	0	0					
8.77	0	0					
8.79	0	0					
8.81	0	0					
8.83	0	0					
8.85	0	0					
8.87	0	0					
8.89	0	0					
8.91	0	0					
8.93	0	0					
8.95	0	0					
8.97	0	0					
8.99	0	0					

NO. OF SAMPLES OVER 9.00 = 0

NO. OF SAMPLES UNDER 8.20 = 0

TOTAL NO. OF OBSERVATIONS = 1769

SAMPLE INTERVAL = 10 MINUTES

OC1 RELEASED.















